

Run on:	December 13, 2005, 12:19:49 ; Search time 1699 Seconds (without alignments)	Title:	US-10-605-498-82	Scoring table:	IDENTITY NUC Gapop 10.0 , Gapext 1.0	Sequence:	1 gggacggggcgctcggtcat 20	Perfect score:	20	Minimum DB seq length:	0	Maximum DB seq length:	50	Total number of hits satisfying chosen parameters:	2097806	Post-processing:	Minimum Match 0% Maximum Match 100%	Listing first 45 summaries	
Database :	GenEmbl:*	GenEmbl:*	1: 9b_ba:*	2: 9b_in:*	3: 9b_env:*	4: 9b_on:*	5: 9b_ov:*	6: 9b_pat:*	7: 9b_ph:*	8: 9b_pr:*	9: 9b_ro:*	10: 9b_sts:*	11: 9b_sy:*	12: 9b_an:*	13: 9b_vt:*	14: 9b_htg:*	15: 9b_pl:*		
Result No.	Score	Query Match	Length	DB	ID	Description													
1	20	100.0	20	6	CQ799984	CQ799984 Sequence	20	6	Length	20;	Query Match	100.0% ;	Score	20;	DB	6;	Length	20;	
2	20	100.0	21	6	CQ799983	CQ799983 Sequence	20	6	Pred. No.	9.7e+02;	Best Local Similarity	100.0% ;	Precess	No.	9.7e+02;	DB	6;	Gaps	0;
c 3	19	95.0	19	6	CQ799992	CQ799992 Sequence	20;	Conservative	0;	Mismatches	0;	Matches	20;	Definition	0;	Indels	0;	Gaps	0;
4	16	80.0	21	6	CQ799905	CQ799905 Sequence	14	164789	Sequence	14	164789	Process for	14	Accession	2	GI:6848931	21	bp	DNA
5	15	75.0	21	6	CQ799906	CQ799906 Sequence	15	AR559501	Sequence	15	AR559501	Process for	15	Version	GI:6848931	Sequence	21	bp	DNA
6	14.2	71.0	33	6	AX473165	AX473165 Sequence	14	AX473165	Sequence	14	AX473165	Process for	14	Keywords	GI:6848931	Sequence	21	bp	DNA
7	14.2	71.0	33	6	AR041097	AR041097 Sequence	7	AR041097	Sequence	7	AR041097	Process for	7	Source	GI:6848931	Sequence	21	bp	DNA
8	13.8	69.0	42	6	AR060705	AR060705 Sequence	8	AR060705	Sequence	8	AR060705	Process for	8	Accession	GI:6848931	Sequence	21	bp	DNA
9	13.8	69.0	42	6	AR063138	AR063138 Sequence	9	AR063138	Sequence	9	AR063138	Process for	9	Version	GI:6848931	Sequence	21	bp	DNA
10	13.8	69.0	42	6	AR117027	AR117027 Sequence	10	AR117027	Sequence	10	AR117027	Process for	10	Keywords	GI:6848931	Sequence	21	bp	DNA
11	13.8	69.0	42	6	AR117027	AR117027 Sequence	11	AR117027	Sequence	11	AR117027	Process for	11	Accession	GI:6848931	Sequence	21	bp	DNA
12	13.8	69.0	42	6	AR16789	AR16789 Sequence	12	AR16789	Sequence	12	AR16789	Process for	12	Version	GI:6848931	Sequence	21	bp	DNA
13	13.2	66.0	27	6	BA1696	BA1696 Sequence	13	BA1696	Sequence	13	BA1696	Process for	13	Keywords	GI:6848931	Sequence	21	bp	DNA
14	13.2	66.0	43	6	AX496977	AX496977 Sequence	14	AX496977	Sequence	14	AX496977	Process for	14	Source	GI:6848931	Sequence	21	bp	DNA
15	13.2	66.0	43	6	AX703486	AX703486 Sequence	15	AX703486	Sequence	15	AX703486	Process for	15	Accession	GI:6848931	Sequence	21	bp	DNA
16	13.2	66.0	43	6	AX720926	AX720926 Sequence	16	AX720926	Sequence	16	AX720926	Process for	16	Version	GI:6848931	Sequence	21	bp	DNA
17	13.2	66.0	43	6	AX925315	AX925315 Sequence	17	AX925315	Sequence	17	AX925315	Process for	17	Keywords	GI:6848931	Sequence	21	bp	DNA
18	13.2	66.0	43	6	AX925574	AX925574 Sequence	18	AX925574	Sequence	18	AX925574	Process for	18	Source	GI:6848931	Sequence	21	bp	DNA

ORGANISM	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Buarchoontoglires; Primates; Catarrhini; Homidae; Homo.	JOURNAL	Patent: WO 2004030660-A 3 15-APR-2004; The University of British Columbia (CA)
REFERENCE	Gleave, M.E., Rocchi, P. and Sigaevsky, M. 1. Compositions for treatment of prostate and other cancers JOURNAL The University of British Columbia (CA) Patent: WO 2004030660-A 81 15-APR-2004; Location/Qualifiers 1. .21 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606"	FEATURES source	FEATURES source 1. .21 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606"
ORIGIN	Query Match Best Local Similarity 100.0%; Score 20; DB 6; Length 21; Matches 20; Conservative 0; Pred. No. 9.6e+02; Mismatches 0; Indels 0; Gaps 0;	ORIGIN	Query Match Best Local Similarity 100.0%; Score 16; DB 6; Length 21; Matches 16; Conservative 0; Pred. No. 4e+04; Mismatches 0; Indels 0; Gaps 0;
Qy	1 GGGACGGCGCTCGGTCAAT 20 2 GGAGCGCGCGCTCGGTCAAT 21	Db	5 CGCGCGCGCTCGGTCAAT 20 1 CGGGCGCGCTCGGTCAAT 16
RESULT 3	CQ799992/c LOCUS CQ799992 DEFINITION Sequence 90 from Patent WO2004030660. ACCESSION CQ799992 VERSION CQ799992.1 KEYWORDS SOURCE ORGANISM Homo sapiens (human) Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Buarchoontoglires; Primates; Catarrhini; Homidae; Homo.	RESULT 5	CQ799906 LOCUS CQ799906 DEFINITION Sequence 4 from Patent WO2004030660. ACCESSION CQ799906 VERSION CQ799906.1 KEYWORDS SOURCE ORGANISM Homo sapiens (human) Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Buarchoontoglires; Primates; Catarrhini; Homidae; Homo.
REFERENCE	Gleave, M.B., Rocchi, P. and Sigaevsky, M. Compositions for treatment of prostate and other cancers JOURNAL The University of British Columbia (CA) Patent: WO 2004030660-A 4 15-APR-2004; Location/Qualifiers 1. .21 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606"	REFERENCE	1. .21 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606"
ORIGIN	Query Match Best Local Similarity 100.0%; Score 20; DB 6; Length 21; Matches 20; Conservative 0; Pred. No. 1e+05; Mismatches 0; Indels 0; Gaps 0;	ORIGIN	Query Match Best Local Similarity 100.0%; Score 15; DB 6; Length 21; Matches 15; Conservative 0; Pred. No. 1e+05; Mismatches 0; Indels 0; Gaps 0;
Qy	1 GGAAGCCGCCGCTCGTGC 15 Db	7 GGAGCGCGCGCTCGTGC 21	Qy 1 GGAAGCCGCCGCTCGTGC 15 Db 7 GGAGCGCGCGCTCGTGC 21
RESULT 4	CQ799905 LOCUS CQ799905 DEFINITION Sequence 3 from Patent WO2004030660. ACCESSION CQ799905 VERSION CQ799905.1 KEYWORDS SOURCE ORGANISM Homo sapiens (human) Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Buarchoontoglires; Primates; Catarrhini; Homidae; Homo.	RESULT 6	AR559501 LOCUS AR559501 DEFINITION Sequence 16 from patent US 6750042. ACCESSION AR559501 VERSION AR559501.1 KEYWORDS SOURCE ORGANISM Unknown Unclassified 1 (bases 1 to 33) SEQUENCE A.O. and Caguiat, J.J. REFERENCES Metal binding proteins, recombinant host cells and methods TITLE JOURNAL Patent: US 6750042-A 16 15-JUN-2004; University of Georgia Research Foundation, Inc.; Athens, GA Location/Qualifiers 1. .23 /organism="unknown" /mol_type="genomic DNA"
REFERENCE	Gleave, M.E., Rocchi, P. and Sigaevsky, M. Compositions for treatment of prostate and other cancers JOURNAL The University of British Columbia (CA) Patent: WO 2004030660-A 81 15-APR-2004; Location/Qualifiers 1. .21 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606"	ORIGIN	Query Match 71.0%; Score 14.2; DB 6; Length 33;

Qy	Best Local Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	ACCESSION AR060705 VERSION AR060705.1 KEYWORDS Unknown. ORGANISM Unclassified.
Db	1 GGGACTCGGCTCTCTGTCAGCA 19 6 GGGTCTCGGGCTCGGGCA 24	REFERENCE 1 (bases 1 to 42) AUTHORS Plomer, J. Jeffrey, Ryland, J.R., Matthews, M.-A.H., Traylor, D.W., Milne, B.B., Durfee, S.L., Matthews, A.J. and Neway, J.Q. TITLE Purification of hemoglobin JOURNAL Patent: US 5840851-A 14 NOV-1998; FEATURES Location/Qualifiers 1. .42 source /organism="unknown" /mol_type="unassigned DNA"
RESULT 7		ORIGIN
LOCUS AX473165	AX473165 Sequence 16 from Patent WO20020062.	Query Match Score 69.0%; DB 6; Length 42; Best Local Similarity 88.2%; Pred. No. 2.8e+05; Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
DEFINITION AX473165	AX473165.1 GI:22207875	JOURNAL Patent: US 5840851-A 14 NOV-1998; FEATURES Location/Qualifiers 1. .42 source /organism="unknown" /mol_type="unassigned DNA"
VERSION AX473165.1		
KEYWORDS SOURCE synthetic construct		
ORGANISM synthetic construct		
REFERENCE OTHER SEQUENCES; ARTIFICIAL SEQUENCES.		
AUTHORS Summers, A.O. and Cagniato, J.J.		
TITLE Metal binding proteins, recombinant host cells and methods		
JOURNAL Patent: WO 0230962-A 16 APR-2002; UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC. (US)		
FEATURES Location/Qualifiers 1. .33		
source /organism="synthetic construct" /mol_type="unassigned DNA" /db_xref="taxon:32630"; /note="primer"		
ORIGIN		RESULT 10
Query Match Score 69.0%; DB 6; Length 42; Best Local Similarity 88.2%; Pred. No. 2e+05; Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	LOCUS AR063138	LOCUS AR063138 DEFINITION Sequence 17 from patent US 5844090.
Db		VERSION AR063138 KEYWORDS Unknown. ORGANISM Unclassified.
Qy	1 GGGAGCGGGGGCTCGGTCA 19 6 GGGTCTCGGGCTCGGGCA 24	REFERENCE 1 (bases 1 to 42) AUTHORS Anderson, D.C., Matthews, A.J., Trimble, S.P. and Anthony-Cahill, S. TITLE Modified hemoglobin-like compounds JOURNAL Patent: US 5844090-A 17 DEC-1998; FEATURES Location/Qualifiers 1. .42 source /organism="unknown" /mol_type="unassigned DNA"
Db		ORIGIN
RESULT 8		Query Match Score 69.0%; DB 6; Length 42; Best Local Similarity 88.2%; Pred. No. 2.8e+05; Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
AR041097	AR041097 Sequence 21 from patent US 5811264.	JOURNAL Patent: US 5844090-A 17 DEC-1998; FEATURES Location/Qualifiers 1. .42 source /organism="unknown" /mol_type="unassigned DNA"
DEFINITION AR041097		
ACCESSION AR041097		
VERSION AR041097.1	GI:5961593	
KEYWORDS SOURCE Unknown.		
ORGANISM Unclassified.		
REFERENCE 1 (bases 1 to 42)		
AUTHORS Aitken, J.F., Apostol, T.Z., Lippincott, J.A. and Levine, J.D.		
TITLE Proteins with mutations to decrease N-terminal methylation		
JOURNAL Patent: US 5811264-A 21 SEP-1998;		
FEATURES Location/Qualifiers 1. .42		
source /organism="unknown" /mol_type="unassigned DNA"		
ORIGIN		RESULT 11
Query Match Score 69.0%; DB 6; Length 42; Best Local Similarity 88.2%; Pred. No. 2.8e+05; Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	LOCUS AR117027	LOCUS AR117027 DEFINITION Sequence 21 from patent US 6140071.
Db		VERSION AR117027 KEYWORDS Unknown. ORGANISM Unclassified.
Qy	4 ACGGGGCGCTCGGTCA 20 16 ACGGTCTCGGGCTCGGTCA 32	REFERENCE 1 (bases 1 to 42) AUTHORS Aitken, J.F., Apostol, T.Z., Lippincott, J.A. and Levine, J.D. TITLE Proteins with mutations to decrease N-terminal methylation JOURNAL Patent: US 6140071-A 21 OCT-2000; FEATURES Location/Qualifiers 1. .42 source /organism="unknown" /mol_type="unassigned DNA"
Db		
RESULT 9		
AR060705	AR060705 Sequence 14 from patent US 5840851.	
DEFINITION LOCUS		

ORIGIN /mol_type="genomic DNA"
 /db_xref="taxon:32630"

Query Match 69.0%; Score 13.8; DB 6; Length 42;
 Best Local Similarity 88.2%; Pred. No. 2.8e+05;
 Matches 15; Conservative 0; Mismatches 2;
 Indels 0; Gaps 0;

Qy 4 ACGCGCGCTCGGTCAAT 20
 ||||| | | | | | | | | |
 Db 16 ACGCTGGCTCGGTCACT 32
 ||||| | | | | | | | | |

RESULT 12
 I64789 164789 42 bp DNA linear PAT 07-OCT-1997
 LOCUS Sequence 14 from patent US 5666869.
 DEFINITION
 ACCESSION I64789
 VERSION GI:2481683
 KEYWORDS Unknown.
 SOURCE
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 42)
 Ryland,J.R., Matthews,M.-A.H., Ernst,U.P., Houk,D.E., Traylor,D.W.
 and Williams,L.R.

TITLE Method for the rapid removal of protoporphyrin from protoporphyrin
 IX-containing solutions of hemoglobin

JOURNAL Patent: US 5666869-A 14 09-SEP-1997;
 FEATURES Location/Qualifiers
 source 1..42
 .organism="unknown"
 /mol_type="unassigned DNA"

ORIGIN

Query Match 69.0%; Score 13.8; DB 6; Length 42;
 Best Local Similarity 88.2%; Pred. No. 2.8e+05;
 Matches 15; Conservative 0; Mismatches 2;
 Indels 0; Gaps 0;

Qy 4 ACGCGCGCTCGGTCAAT 20
 ||||| | | | | | | | | |
 Db 16 ACGCTGGCTCGGTCACT 32
 ||||| | | | | | | | | |

RESULT 13
 E41696 E41696 27 bp DNA linear PAT 31-JAN-2002
 LOCUS Process for producing L-glutamic acid by fermentaion.
 DEFINITION E41696
 ACCESSION E41696
 VERSION JP 2001069979-A/13
 KEYWORDS
 ORGANISM synthetic construct
 OTHER SEQUENCES: artificial sequences.
 REFERENCE 1 (bases 1 to 27)
 Fujii,M. and Imanaka,T.
 TITLE Process for producing L-glutamic acid by fermentaion
 JOURNAL Patent: JP 2001069979-A 13 21-MAR-2001;
 COMMENT OS Artificial Sequence
 JP 2001069979-A/13
 PD 21-MAR-2001
 PR 31-AUG-1999 JP 1999245121
 PI MIKIO FUJII,TADAYUKI IMANAKA
 PC C12N15/09,C12N1/21,C12P13/14//(C12N1/21,C12R1:15),(C12P13/14,
 C12R1:15),
 PC C12N15/00
 CC
 EH Key source 1..27
 FT /organism='Artificial Sequence'.
 FEATURES Source 1..27
 /organism='synthetic construct'

ORIGIN /mol_type="genomic DNA"
 /db_xref="taxon:32630"

Query Match 66.0%; Score 13.2; DB 6; Length 27;
 Best Local Similarity 83.3%; Pred. No. 5.2e+05;
 Matches 15; Conservative 0; Mismatches 3;
 Indels 0; Gaps 0;

Qy 3 GACGCCGGCTCGGTCAAT 20
 ||||| | | | | | | | | |
 Db 9 GACGCCGGAAACGGCCAT 26
 ||||| | | | | | | | | |

RESULT 14
 AX496977 43 bp DNA linear PAT 26-SEP-2002
 LOCUS Sequence 48 from Patent WO02228286.
 DEFINITION AX496977
 ACCESSION AX496977
 VERSION AX496977.1 GI:23342420
 KEYWORDS Homo sapiens (human)

ORGANISM Homo sapiens
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Hominidae; Homo.

REFERENCE 1
 Li,M., Melander,C. and Liu,H.
 AUTHORS Methods and compositions for the construction and use of fusion
 TITLE libraries
 JOURNAL Patent: WO 02228286-A 48 21-MAR-2002;
 Xencor, Inc. (US)

FEATURES Location/Qualifiers
 source 1..43
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

ORIGIN

Query Match 66.0%; Score 13.2; DB 6; Length 43;
 Best Local Similarity 83.3%; Pred. No. 4.9e+05;
 Matches 15; Conservative 0; Mismatches 3;
 Indels 0; Gaps 0;

Qy 1 GGGACGGGGCGCTCGGTCAAT 18
 ||||| | | | | | | | | | | |
 Db 8 GGGGCTGGCGCTCGGTCACT 25
 ||||| | | | | | | | | | | |

RESULT 15
 AX703486 43 bp DNA linear PAT 03-APR-2003
 LOCUS Sequence 48 from Patent WO020666653.
 DEFINITION AX703486
 ACCESSION AX703486
 VERSION AX703486.1 GI:29538451
 KEYWORDS
 SOURCE
 ORGANISM Homo sapiens (human)
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Hominidae; Homo.

REFERENCE 1
 Li,M. and Liu,Y.C.
 AUTHORS Prokaryotic libraries and uses
 TITLE Patent: WO 02066653-A 48 29-AUG-2002;
 JOURNAL Xencor (US)

FEATURES Location/Qualifiers
 source 1..43
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

ORIGIN

Query Match 66.0%; Score 13.2; DB 6; Length 43;
 Best Local Similarity 83.3%; Pred. No. 4.9e+05;

	Matches	15;	Conservative	0;	Mismatches	3;	Indels	0;	Gaps	0;
Qy	1	GGGACCGGGCCTCGTC			18					
Db	8	GGGGCTGGCCTCGTC			25					

Search completed: December 13, 2005, 13:58:20
Job time : 1701 secs

THIS PAGE BLANK (USPTO)

Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 13, 2005, 08:34:39 ; Search time 260 Seconds
(without alignments)

512.669 Million cell updates/sec

Title: US-10-605-498-82

Perfect score: 20

Sequence: 1 ggacggcgccgcgtggat 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4996997 seqs, 3332346308 residues

Total number of hits satisfying chosen parameters: 4879314

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_21:
 1: geneseqn1980s:
 2: geneseqn1990s:
 3: geneseqn2000s:
 4: geneseqn2001as:
 5: geneseqn2001bs:
 6: geneseqn2002as:
 7: geneseqn2002bs:
 8: geneseqn2003as:
 9: geneseqn2003bs:
 10: geneseqn2003cs:
 11: geneseqn2003ds:
 12: geneseqn2004as:
 13: geneseqn2004bs:
 14: geneseqn2005bs:
 Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	12 ADM94732	Adm94732 Human hea
2	20	100.0	21	12 ADM94731	Adm94731 Human hea
c 3	19	95.0	19	12 ADM94740	Adm94740 Human hea
c 4	16	80.0	21	12 ADM94653	Adm94653 Human hea
5	15	75.0	21	12 ADM94654	Adm94654 Human hea
c 6	14.2	71.0	33	6 ABK52211	Abk52211 Synthetic
c 7	14.2	71.0	47	8 ABZ68938	Abz68938 PCR prime
c 8	14	70.0	25	9 ACH58106	Ach58106 DNA target
9	13.8	69.0	42	2 AAQ87144	Aaq87144 PBR322 or
10	13.8	69.0	42	2 ART32735	Art32735 Oligo TG6
11	13.8	69.0	42	2 AAT73265	Aat73265 Downstream
12	13.8	69.0	42	2 AAT60986	Aat60986 Downstream
c 13	13.8	69.0	42	2 AAV58346	Aav58346 Primer TG
14	13.8	69.0	42	5 AAC81485	Aac81485 PBR322 or
c 15	13.2	66.0	25	9 ACT03862	Act03862 Human mic
c 16	13.2	66.0	25	9 ACI65798	aci65798 Human mic
17	13.2	66.0	27	4 AAH21740	Aah21740 Corynebac
18	13.2	66.0	43	4 AAA91324	Aaa91324 Rep68 and
19	13.2	66.0	43	6 ADD36295	Add36295 Rep68 and

ALIGNMENTS

RESULT 1	
ID	ADM94732
ID	ADM94732 standard; DNA; 20 BP.
XX	XX
AC	ADM94732;
XX	XX
DT	01-JUL-2004 (first entry)
XX	XX
DB	Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:82.
XX	heat shock protein 27; cyrostatic; gene therapy;
KW	heat shock prtein 27 inhibitor; hsp27 inhibitor; cancer; human;
KW	antisense oligonucleotide; ss.
XX	XX
OS	Homo sapiens.
OS	Synthetic.
XX	XX
PN	WO2004030660-A2.
XX	XX
PD	15-APR-2004.
XX	XX
PF	02-OCT-2003; 2003WO-CA001588.
PR	02-OCT-2002; 2002WO-0415859P.
PR	18-APR-2003; 2003US-0463952P.
XX	XX
PA	(UTPR-) UNIV BRITISH COLUMBIA.
XX	XX
PI	Gleave ME, Rocchi P, Signaevsky M;
XX	XX
DR	WPI; 2004-316331/29.
XX	XX
PT	New composition comprising a therapeutic agent that reduces the amount of active hsp27 expressing cells exposed to the therapeutic agent, useful in treating cancer, e.g., prostate cancer or a central nervous system malignancy.
CC	The present invention describes a composition which comprises a therapeutic agent that reduces the amount of active heat shock protein (hsp27) in hsp27 expressing cells exposed to the therapeutic agent. The
CC	Claim 6; SEQ ID NO 82; 38pp; English.
XX	XX

CC composition has cytostatic activity, and can be used in gene therapy. The CC composition is useful in treating cancer, e.g., prostate, bladder, lung, CC breast, pancreatic, colon, skin (for example melanoma), renal or ovarian CC cancer or a central nervous system malignancy. The present sequence CC represents a human hsp27 antisense oligonucleotide which is used in the CC exemplification of the present invention.

XX Sequence 20 BP; 2 A; 6 C; 9 G; 3 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 12; Length 20;

Best Local Similarity 100.0%; Pred. No. 12;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAGCGGGCTCGGTAT 20

Db 1 GGAACGGCGCTCGGTAT 20

RESULT 2

ID ADM94731 standard; DNA; 21 BP.

XX AC ADM94731;

XX DT 01-JUL-2004 (first entry)

XX Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

XX DE Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:81.

Qy 1 GGGACGGGGCTCGGTAT 20
 Db 2 GGACGGGGCTCGGTAT 21

RESULT 3

ID ADM94740/C
 XX AD94740 standard; DNA; 19 BP.
 AC ADM94740;
 XX DT 01-JUL-2004 (first entry)
 XX Human heat shock protein 27 siRNA oligonucleotide SEQ ID NO:90.
 XX heat shock protein 27; hsp27; cytostatic; gene therapy;
 XX heat shock protein 27 inhibitor; hsp27 inhibitor; cancer; human;
 XX antisense oligonucleotide; ss.
 OS Homo sapiens.
 OS Synthetic.
 XX PN WO2004030660-A2.
 XX DR 2004-316331/29.
 XX PD 15-APR-2004.
 XX PT 02-OCT-2003; 2003WO-CA001588.
 XX PR 02-OCT-2002; 2002US-0415859P.
 XX PR 18-APR-2003; 2003US-0463952P.
 XX PA (UYBR-) UNIV BRITISH COLUMBIA.
 XX PI Gleave ME, Rocchi P, Sigmaevsky M;
 XX WPI; 2004-316331/29.
 XX New composition comprising a therapeutic agent that reduces the amount of active hsp27 in hsp27 expressing cells exposed to the therapeutic agent, useful in treating cancer, e.g., prostate cancer or a central nervous system malignancy.
 XX Claim 10; SEQ ID NO 90; 38pp; English.
 XX The present invention describes a composition which comprises a therapeutic agent that reduces the amount of active heat shock protein 27 (hsp27) in hsp27 expressing cells exposed to the therapeutic agent. The composition has cytostatic activity, and can be used in gene therapy. The composition is useful in treating cancer, e.g., prostate, bladder, lung, breast, pancreatic, colon, skin (for example melanoma), renal or ovarian cancer or a central nervous system malignancy. The present sequence represents a human hsp27 short interfering RNA (siRNA) oligonucleotide which is used in the exemplification of the present invention.
 XX Sequence 19 BP; 3 A; 8 C; 6 G; 0 T; 2 U; 0 Other;
 XX Query Match 95.0%; Score 19; DB 12; Length 19;
 XX Best Local Similarity 100.0%; Pred. No. 34;
 XX Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 2 GGACGGGGCTCGGTAT 20
 Db 19 GGACGGGGCTCGGTAT 1

RESULT 4

ID ADM94653
 XX AD94653 standard; DNA; 21 BP.
 AC ADM94653;
 XX DT 01-JUL-2004 (first entry)

DB Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:3.
 XX
 KW heat shock protein 27; cytosstatic; gene therapy;
 KW heat shock protein 27 inhibitor; hsp27 inhibitor; cancer; human;
 KW antisense oligonucleotide; ss.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200400660-A2.
 XX
 PD 15-APR-2004.
 XX
 PR 02-OCT-2003; 2003WO-CA001588.
 XX
 PF 02-OCT-2002; 2002US-0415859P.
 PR 18-APR-2003; 2003US-0463952P.
 PA (UYBR-) UNIV BRITISH COLUMBIA.
 XX
 PI Gleave ME, Rocchi P, Signaevsky M;
 XX
 DR WPI; 2004-316331/29.
 XX
 PT New composition comprising a therapeutic agent that reduces the amount of active hsp27 in hsp27 expressing cells exposed to the therapeutic agent, useful in treating cancer, e.g., prostate cancer or a central nervous system malignancy.
 XX
 PS Claim 5; SEQ ID NO 4; 38pp; English.
 XX
 CC The present invention describes a composition which comprises a therapeutic agent that reduces the amount of active heat shock protein 27 (hsp27) in hsp27 expressing Cells exposed to the therapeutic agent. The composition has cytostatic activity, and can be used in gene therapy. The composition is useful in treating cancer, e.g., prostate, bladder, lung, breast, pancreatic, colon, skin (for example melanoma), renal or ovarian cancer or a central nervous system malignancy. The present sequence represents a human hsp27 antisense oligonucleotide which is used in the exemplification of the present invention.
 XX
 SQ Sequence 21 BP; 4 A; 5 C; 11 G; 1 T; 0 U; 0 Other;
 XX
 Query Match 75.0%; Score 15; DB 12; Length 21;
 Best Local Similarity 100.0%; Pred. No. 2.4e+03;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 CC
 Qy 1 GGAGGCGCCGCGTCG 15
 Db 7 GGAGGCGCCGCGTCG 21
 XX
 RESULT 6
 ABK52211
 ID ABK52211 standard; DNA; 33 BP.
 XX
 AC ABK52211;
 XX
 DT 13-AUG-2002 (first entry)
 DE Synthetic product 2 reverse PCR primer for construction of pASK-MBD.
 XX
 KW Mercuric ion; contaminated soil; ground water; hydroponic solution;
 KW irrigation water; waste stream; contaminated aqueous medium;
 KW biological fluid; gastrointestinal tract; chelon protein;
 KW enteric bacteria; toxic metal ion; mercury; cadmium; divalent cation;
 KW heavy metal binding protein; pASK-MBD; PCR; primer; ss.
 OS Synthetic.
 XX
 PN WO200230962-A2.
 XX
 DT 18-APR-2002.
 XX
 DB 12-OCT-2001; 2001WO-US031819.
 PA (UYGE-) UNIV GEORGIA RES FOUND INC.
 XX
 PI Summers AO, Caguiat JJ;
 XX
 DR WPI; 2002-415437/46.
 XX
 PT Novel non-naturally occurring recombinant DNA molecule encoding a chelon protein useful for binding divalent cation mercury from contaminated

DB Human heat shock protein 27 antisense oligonucleotide SEQ ID NO:3.
 XX
 KW heat shock protein 27; cytosstatic; gene therapy;
 KW heat shock protein 27 inhibitor; hsp27 inhibitor; cancer; human;
 KW antisense oligonucleotide; ss.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200400660-A2.
 XX
 PD 15-APR-2004.

PT soil, water, aqueous medium including biological fluids.
 PS Disclosure: Page 24; 42pp; English.

XX The present invention relates to a new non-naturally occurring recombinant DNA molecule comprising a sequence encoding a chelon protein which binds mercuric ions. The invention is useful for recombinantly producing a protein in a host-cell, by infecting or transforming a host cell capable of expressing a chelon coding sequence with a vector comprising a promoter active in the host cell operably linked to a coding region for the protein to produce a recombinant host cell and culturing the recombinant host cell under conditions where DNA is expressed. The nucleic acid encoding the chelon protein is useful for binding divalent mercuric ions, to take up, sequester and concentrate the heavy metal ions from contaminated soil, ground water, hydroponic solutions or irrigation water of waste streams. The DNA of the invention, when immobilised onto a solid support, is useful for concentrating heavy metal ions from contaminated environment waste streams or contaminated aqueous medium including biological fluids. The nucleic acid, when recombinantly expressed in enteric bacteria (which are nontoxic and nonpathogenic), is suitable for use in the in vivo sequestration and elimination of mercuric ion from gastrointestinal tracts of animals or humans exposed to toxic metal ions such as mercury and/or cadmium. The molecules of the invention are also useful in water treatment resins. The nucleic acid of the invention is highly specific and binds divalent ratio such as mercury or cadmium with high affinity. The present nucleic acid sequence represents synthetic product 2 reverse PCR primer that was used in the methods of the invention for construction of PASK-MBD vector

XX Sequence 33 BP; 6 A; 8 C; 12 G; 7 T; 0 U; 0 Other;

Query Match 71.0%; Score 14.2; DB 6; Length 33;
 Best Local Similarity 84.2%; Pred. No. 5.4e+03;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 GGGACGGCGGCGCTGGTCA 19
 Db 6 GGGTCTCGCGCTGGGA 24

RESULT 7
 ABZ68928/C
 ID ABZ68928 Standard; DNA; 47 BP.
 XX AC ABZ68928;
 XX DT 28-MAY-2003 (first entry)
 XX PR PCR primer used to amplify a PKS domain DNA sequence.
 XX KW Simvastatin; polyketide synthase; PKS; HMPKSB2; PCR; primer; ss.
 XX Unidentified.
 OS XX
 PN WO2003010324-A2.
 XX PR 25-JUL-2001; 2001IN-DE000157.
 XX PD 06-FEB-2003.
 XX PP 25-JUL-2002; 2002WO-IN000157.
 XX PR 25-JUL-2001; 2001IN-DE000796.
 XX PA (ITGE-) INT CENT GENETIC ENG & BIOTECHNOLOGY.
 XX Ranganathan A;
 XX DR 2003-248083/24.

XX Preparing simvastatin or its analogs or derivatives, by providing a host having a customized gene encoding a polyketide synthase, and fermenting the host to obtain simvastatin or its analogs or derivatives.
 PT XX
 PT XX
 PS Example 1.2.3; Page 21; 40pp; English.

XX The specification describes a method of preparing simvastatin or its analogues or derivatives by biological expression. The method comprises providing a host having a customized gene encoding for a polyketide synthase (PKS), and fermenting the host to obtain simvastatin or its analogues or derivatives. The method is useful for producing simvastatin or its analogs or derivatives. PCR primers AB68927-28 were used to amplify a PKS domain DNA sequence. The amplified fragment was used in the construction of the hybrid modular PKS B2 (HMPKSB2), for use in the method of the invention

XX SQ Sequence 47 BP; 8 A; 14 C; 20 G; 5 T; 0 U; 0 Other;

Query Match 71.0%; Score 14.2; DB 8; Length 47;
 Best Local Similarity 84.2%; Pred. No. 5.4e+03;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GGGACGGCGGCGCTGGTCA 19
 Db 33 GGGCGCGCGCGCTGGCCA 15

RESULT 8
 AC H58106
 ID AC H58106 standard; DNA; 25 BP.
 XX AC AC H58106;
 XX DT 16-OCT-2003 (first entry)
 XX DE DNA target sequence #7242 useful in array for genetic analyses.
 XX DE Gene expression analysis; array; hybridisation; genetic variation; tag-labelled compound; gene family; in situ hybridisation; library screening; Southern hybridisation; northern hybridisation; dot-blot hybridisation; gene sequence; mutation detection; target sequence; probe; PCR; primer; ss.
 XX OS Unidentified.
 XX US2003082596-A1.
 XX PN US2003082596-A1.
 XX PD 01-MAY-2003.
 XX PR 08-AUG-2002; 2002US-00215112.
 XX PA 08-AUG-2001; 2001US-0311040P.
 XX PA (MITT) MITTMANN M.
 XX PI Mittmann M;
 XX DR WPI; 2003-576608/54.
 XX PT New probe array useful e.g. for monitoring gene expression levels, for analyzing genetic variations, or for hybridizing tag-labelled compounds, comprises multiple nucleic acid probes.
 XX PR Claim 1; SEQ ID NO 7242; 9pp; English.
 XX PT The present invention relates to nucleic acid sequences that are complementary to particular genes, and can be used as probes for a variety of analyses such as gene expression analysis. Each probe comprises 9 or more consecutive nucleotides from at least one of 14936 nucleotide sequences defined in the patent, or their perfect sense match, antisense mismatch, antisense match or antisense mismatch oligonucleotides.
 XX PT The probes may be used in an array comprising at least 10 distinct nucleic acid probes. The array is useful in monitoring gene expression levels by hybridisation to a DNA library, in analysing genetic variations and in hybridising tag-labelled compounds. The probes are useful for identifying family members of a gene. The probes are also useful in in situ hybridisations, in screening cDNA or genomic libraries (or derived subclones) for additional clones containing segments of DNA

CC that have been previously isolated and sequenced, in Southern, northern, or dot-blot hybridisation of genomic DNA to identify or detect the sequence of any gene or detect specific mutations in any gene, and in mapping the 5' termini of mRNA molecules by primer extensions. The nucleic acid sequences of the invention are also useful as PCR primers. The invention provides a large collection of nucleic acid sequences complementary to particular genes with a wide range of analytical uses.

CC ACH865-ACH62260 represent the target sequences of the invention. Note:

CC The sequence data for this patent was obtained in electronic format

CC directly from the USPTO web site at seqdata.uspto.gov/patsidentry.html

XX Sequence 25 BP; 4 A; 9 C; 9 G; 3 T; 0 U; 0 Other;

Query Match 70.0%; Score 14; DB 9; Length 25;
Best Local Similarity 100.0%; Pred. No. 6.8e+03;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

SQ 2 GGACCGGGCTCG 15

Db 2 GGACCGGGCTCG 15

Qy AAQ87144

ID AAQ87144 standard; DNA; 42 BP.

XX

AC AAQ87144;

XX DT 24-JAN-1996 (first entry)

XX DB pBR322 ori downstream amplification primer TG63.

XX KW Primer; PCR; amplification; recombinant haemoglobin; alpha subunit;

KW expression vector; purity; beta subunit; tac promoter; tet gene;

KW lambda repressor gene; lacI; ss.

XX Synthetic.

XX PN WO9615151-A1.

XX PD 23-MAY-1996.

XX PR 11-MAY-1995;

PR 14-NOV-1994;

PR 10-MAY-1995;

XX PA (SOMA-) SOMATOGEN INC.

XX PI Plomer JJ, Ryland JR, Matthews MH, Taylor DW, Milne EE;

XX PI Durfee SL, Mathews AJ, Neway JO;

XX DR 1996-255784/26.

XX Purifn. of haemoglobin soln. from cell lysate by metal affinity

PT chromatography - opt. followed by anion exchange chromatography and

XX oxygenation of the soln., partic. useful as therapeutic oxygen carrier.

XX Example 1: Page 30; 74pp; English.

XX WO9514038-A2.

XX PD 26-MAY-1995.

XX PP 15-NOV-1994;

XX PR 15-NOV-1993;

XX PA (SOMA-) SOMATOGEN INC.

XX PI Milne EE, Plomer JJ, Rausch SK, Hogenson DC, Ryland JR;

PI Matthews MH, Ernst UP, Houk DE, Taylor DW, Williams LR;

PI Mitchell DJ, Chivers ML, Belval TK;

XX DR 1995-200344/26.

XX Purification of haemoglobin, esp. recombinant haemoglobin - using e.g.

PT immobilised metal affinity chromatography heating steps, anion exchange

PT resins and chelating agents.

XX Example 1: Page 31; 77pp; English.

XX The primers AAQ87135-50 were used to subclone the haemoglobin alpha and

beta genes into bacterial expression vectors. The vectors thus

constructed were used in methods to produce recombinant haemoglobin which

can be purified to pharmaceutically acceptable levels of purity by the

CC methods of the specification. This primer binds downstream of the pBR322

CC origin of replication (ori) at pos. 2380-2404. The primer with primer

TG62 (AAQ87143) is used to amplify the pBR322 ori. The ori is used in the

CC construction of the expression vector PSGE705. This vector contains two

CC copies of the haemoglobin alpha subunit gene in tandem, linked to the

CC beta subunit gene, all under control of the tac promoter (AAQ87136-).

CC The Plasmid also has inserted the tet gene and the LacI gene for

CC regulation of the production of haemoglobin

SQ Sequence 42 BP; 3 A; 12 C; 16 G; 11 T; 0 U; 0 Other;

Query Match 69.0%; Score 13.8; DB 2;

Best Local Similarity 88.2%; Pred. No. 8.3e+03;

Matches 15; Conservat. 0; Mismatches 2;

Indels 0; Gaps 0;

Qy 4 ACGGGGCTCGGTCA 20

16 ACGTGCGTCGGTGT 32

Db

RESULT 10

AAU32725

ID AAU32725 standard; DNA; 42 BP.

XX

XX AAU32725;

XX Oligo TG63 for creation of recombinant haemoglobin.

XX Haemoglobin; alpha globin; Hb; dietary supplement; anaemia;

KW molecular weight marker; oxygen carrier; transfusion; oxygen delivery;

KW erythrocyte; nitric oxide; non-oxygenated ligand; therapy; hypertension;

KW hypotension; septic shock; polymerase chain reaction; primer; amplify;

KW PCR; ss.

XX Synthetic.

XX PN WO9615151-A1.

XX XX

XX PD 23-MAY-1996.

XX PR 11-MAY-1995;

PR 14-NOV-1994;

PR 10-MAY-1995;

XX PA (SOMA-) SOMATOGEN INC.

XX PI Plomer JJ, Ryland JR, Matthews MH, Taylor DW, Milne EE;

XX PI Durfee SL, Mathews AJ, Neway JO;

XX DR 1996-255784/26.

XX Purifn. of haemoglobin soln. from cell lysate by metal affinity

PT chromatography - opt. followed by anion exchange chromatography and

XX oxygenation of the soln., partic. useful as therapeutic oxygen carrier.

XX Example 1: Page 30; 74pp; English.

XX WO9514038-A2.

XX PD 26-MAY-1995.

XX PP 15-NOV-1994;

XX PR 15-NOV-1993;

XX PA (SOMA-) SOMATOGEN INC.

XX PI Milne EE, Plomer JJ, Rausch SK, Hogenson DC, Ryland JR;

PI Matthews MH, Ernst UP, Houk DE, Taylor DW, Williams LR;

PI Mitchell DJ, Chivers ML, Belval TK;

XX DR 1995-200344/26.

XX Purification of haemoglobin, esp. recombinant haemoglobin - using e.g.

PT immobilised metal affinity chromatography heating steps, anion exchange

PT resins and chelating agents.

XX Example 1: Page 31; 77pp; English.

XX The primers AAQ87135-50 were used to subclone the haemoglobin alpha and

beta genes into bacterial expression vectors. The vectors thus

constructed were used in methods to produce recombinant haemoglobin which

can be purified to pharmaceutically acceptable levels of purity by the

CC methods of the specification. This primer binds downstream of the pBR322

CC origin of replication (ori) at pos. 2380-2404. The primer with primer

TG62 (AAQ87143) is used to amplify the pBR322 ori. The ori is used in the

CC construction of the expression vector PSGE705. This vector contains two

CC copies of the haemoglobin alpha subunit gene in tandem, linked to the

CC beta subunit gene, all under control of the tac promoter (AAQ87136-).

CC The Plasmid also has inserted the tet gene and the LacI gene for

CC regulation of the production of haemoglobin

SQ Sequence 42 BP; 3 A; 12 C; 16 G; 11 T; 0 U; 0 Other;

Query Match 69.0%; Score 13.8; DB 2;

Best Local Similarity 88.2%; Pred. No. 8.3e+03;

Matches 15; Conservat. 0; Mismatches 2;

Indels 0; Gaps 0;

Qy 4 ACGGGGCTCGGTCA 20

16 ACGTGCGTCGGTGT 32

Db

RESULT 11

AAU32725

ID AAU32725 standard; DNA; 42 BP.

XX

XX AAU32725;

XX Oligo TG63 for creation of recombinant haemoglobin.

XX Haemoglobin; alpha globin; Hb; dietary supplement; anaemia;

KW molecular weight marker; oxygen carrier; transfusion; oxygen delivery;

KW erythrocyte; nitric oxide; non-oxygenated ligand; therapy; hypertension;

KW hypotension; septic shock; polymerase chain reaction; primer; amplify;

KW PCR; ss.

XX Synthetic.

XX PN WO9615151-A1.

XX XX

XX PD 23-MAY-1996.

XX PR 11-MAY-1995;

PR 14-NOV-1994;

PR 10-MAY-1995;

XX PA (SOMA-) SOMATOGEN INC.

XX PI Plomer JJ, Ryland JR, Matthews MH, Taylor DW, Milne EE;

PI Durfee SL, Mathews AJ, Neway JO;

DR 1996-255784/26.

XX Purifn. of haemoglobin soln. from cell lysate by metal affinity

PT chromatography - opt. followed by anion exchange chromatography and

XX oxygenation of the soln., partic. useful as therapeutic oxygen carrier.

XX Example 1: Page 30; 74pp; English.

XX WO9514038-A2.

XX PD 26-MAY-1995.

XX PP 15-NOV-1994;

XX PR 15-NOV-1993;

XX PA (SOMA-) SOMATOGEN INC.

XX PI Milne EE, Plomer JJ, Rausch SK, Hogenson DC, Ryland JR;

PI Matthews MH, Ernst UP, Houk DE, Taylor DW, Williams LR;

PI Mitchell DJ, Chivers ML, Belval TK;

XX DR 1995-200344/26.

XX Purification of haemoglobin, esp. recombinant haemoglobin - using e.g.

PT immobilised metal affinity chromatography heating steps, anion exchange

PT resins and chelating agents.

XX Example 1: Page 31; 77pp; English.

XX The primers AAQ87135-50 were used to subclone the haemoglobin alpha and

beta genes into bacterial expression vectors. The vectors thus

constructed were used in methods to produce recombinant haemoglobin which

can be purified to pharmaceutically acceptable levels of purity by the

CC methods of the specification. This primer binds downstream of the pBR322

CC origin of replication (ori) at pos. 2380-2404. The primer with primer

TG62 (AAQ87143) is used to amplify the pBR322 ori. The ori is used in the

CC construction of the expression vector PSGE705. This vector contains two

CC copies of the haemoglobin alpha subunit gene in tandem, linked to the

CC beta subunit gene, all under control of the tac promoter (AAQ87136-).

CC The Plasmid also has inserted the tet gene and the LacI gene for

CC regulation of the production of haemoglobin

SQ Sequence 42 BP; 3 A; 12 C; 16 G; 11 T; 0 U; 0 Other;

Query Match 69.0%; Score 13.8; DB 2;

Best Local Similarity 88.2%; Pred. No. 8.3e+03;

Matches 15; Conservat. 0; Mismatches 2;

Indels 0; Gaps 0;

Qy 4 ACGGGGCTCGGTCA 20

16 ACGTGCGTCGGTGT 32

Db

RESULT 12

AAU32725

ID AAU32725 standard; DNA; 42 BP.

XX

XX AAU32725;

XX Oligo TG63 for creation of recombinant haemoglobin.

XX Haemoglobin; alpha globin; Hb; dietary supplement; anaemia;

KW molecular weight marker; oxygen carrier; transfusion; oxygen delivery;

KW erythrocyte; nitric oxide; non-oxygenated ligand; therapy; hypertension;

KW hypotension; septic shock; polymerase chain reaction; primer; amplify;

KW PCR; ss.

XX Synthetic.

XX PN WO9615151-A1.

XX XX

XX PD 23-MAY-1996.

XX PR 11-MAY-1995;

XX PR 14-NOV-1994;

PR 10-MAY-1995;

XX PA (SOMA-) SOMATOGEN INC.

XX PI Plomer JJ, Ryland JR, Matthews MH, Taylor DW, Milne EE;

PI Durfee SL, Mathews AJ, Neway JO;

DR 1996-255784/26.

XX Purifn. of haemoglobin soln. from cell lysate by metal affinity

PT chromatography - opt. followed by anion exchange chromatography and

XX oxygenation of the soln., partic. useful as therapeutic oxygen carrier.

XX Example 1: Page 30; 74pp; English.

XX WO9514038-A2.

XX PD 26-MAY-1995.

XX PP 15-NOV-1994;

XX PR 15-NOV-1993;

XX PA (SOMA-) SOMATOGEN INC.

XX PI Milne EE, Plomer JJ, Rausch SK, Hogenson DC, Ryland JR;

PI Matthews MH, Ernst UP, Houk DE, Taylor DW, Williams LR;

PI Mitchell DJ, Chivers ML, Belval TK;

XX DR 1995-200344/26.

XX Purification of haemoglobin, esp. recombinant haemoglobin - using e.g.

PT immobilised metal affinity chromatography heating steps, anion exchange

PT resins and chelating agents.

XX Example 1: Page 31; 77pp; English.

XX The primers AAQ87135-50 were used to subclone the haemoglobin alpha and

beta genes into bacterial expression vectors. The vectors thus

constructed were used in methods to produce recombinant haemoglobin which

can be purified to pharmaceutically acceptable levels of purity by the

CC methods of the specification. This primer binds downstream of the pBR322

CC origin

XX	SQ Sequence 42 BP; 3 A; 12 C; 16 G; 11 T; 0 U; 0 Other;	Db	16 ACGCTGGCTCGTCGT 32
Query Match	69.0%; Score 13.8; DB 2; Length 42;	RESULT 12	
Best Local Similarity	88.2%; Pred. No. 8.3e+03;	ID AAT60986	
Matches 15;	Conservative 0; Mismatches 2;	ID AAT60986 standard	
Indels 0;	Gaps 0;	KW XX	
Qy 4 ACGCGCGCTGGTCACT 20	AC	AC AAT60986;	
Db 16 ACGCTGGCTCGTCGT 32		KW XX	
		DE Downstream primer for pBR322 ori positions 2380-2404.	
RESULT 11		KW XX	
AAT73265		Preparation; construction; plasmid; pSGE705; pBR; Globin;	
ID AAT73265		KW replication origin; tetracycline resistance; di-alpha; di-beta;	
Standard; DNA: 42 BP.		KW tac promoter; LacI; primer; polymerase chain reaction; PCR;	
AC AAT73265;		KW XX	
XX DT 11-SEP-1997 (first entry)		amplification; 88.	
XX DE Downstream primer TG63 to amplify pBR322 origin of replication.		KW XX	
XX Linker; haemoglobin; alpha domain; beta domain; red blood cell;		OS Synthetic.	
KW haemorrhage; trauma; anaemia; surgery; oxygen carrying capacity.		XX PN WO9704110-A1.	
XX OS Synthetic.c.		XX PA 06-FEB-1997.	
XX PN WO9640920-A1.		XX PF 12-JUL-1996;	
XX PD 19-DEC-1996.		XX PR 14-JUL-1995;	
XX PP 06-JUN-1996;		XX DR 1997-132648/12.	
XX PR 07-JUN-1995;		XX PT 95US-0001179P.	
PA (SOMA-) SOMATOGEN INC.		XX PA (SOMA-) SOMATOGEN INC.	
XX Trimble SP, Anderson DC, Mathews AJ, Anthony-Cahill S;		XX PI Weickert MJ, Glascock CB;	
PI Marquardt DA, Maeril DG, Kerwin BA, Epp JK;		XX DR WPI; 1997-132648/12.	
XX DR 1997-052322/05.		XX PT Prokaryotic cell contg. plasmid including regulatable expression unit -	
XX Globin-like polypeptide comprising 2 di:alpha domains - useful as red		CC PT for heterologous protein, and chromosomal gene encoding regulator of this	
PT blood cell substitute, e.g. in treatment of haemorrhage(s), trauma(s),		CC CC unit controlled by strong promoter, provides tight control of expression.	
PT anæmia(s) and in surgery.		XX SQ Example 1; Page 15; 60PP; English.	
XX PS Example 1; Page 21; 61PP; English.		XX PS The present sequence was used in the preparation of the plasmid pSGE705,	
XX CC The invention relates to a globin-like polypeptide comprising 2 dialpha		CC CC which has the pBR origin of replication, tetracycline resistance gene,	
CC domains preferably linked by a peptide linker of 7 or 14 amino acids,		CC the di-alpha and di-beta globin genes, tac promoter and LacI	
CC such as AAW22221-3, attached to other globin-like molecules, e.g. beta-		XX Sequence 42 BP; 3 A; 12 C; 16 G; 11 T; 0 U; 0 Other;	
CC globin molecules. The primers AAT73264-5 were used to amplify the origin		XX PS	
CC of replication from the plasmid pBR322, in order to construct a plasmid		XX Query Match 69.0%; Score 13.8; DB 2; Length 42;	
CC for expression of the novel haemoglobin-like protein. This primer binds		XX Best Local Similarity 88.2%; Pred. No. 8.3e+03;	
CC to nucleotides 2380-2404 of the ori sequence. The amplified fragment was		XX Matches 15; Conservative 0; Mismatches 2;	
CC ligated to a fragment containing the tet resistance gene from plasmid		XX Indels 0; Gaps 0;	
CC pSEBCT-1 (Promega). These fragments were inserted into pUC19 to generate		Qy 4 ACCGGCGCTCGTCGTAT 20	
CC plasmid pSGE707. A fragment containing the alpha and beta		Db 16 ACCGGCGCTCGTCGTAT 32	
CC haemoglobin chains was inserted as was a fragment encoding a linked di-		XX DT 20-NOV-1998 (first entry)	
CC alpha chain. The final construct was named pSGE713. The haemoglobin-like		XX DE Primer TG63 for haemoglobin mutant coding sequence.	
CC proteins and compositions containing them can be used as red blood cell		XX KW PCR primer; haemoglobin mutant; N-terminal methylation; 88.	
CC substitutes, e.g. for treating haemorrhages, traumas, anæmias and		XX OS Synthetic.	
CC surgeries where fluid volume and/or oxygen carrying capacity must be		OS Homo sapiens.	
CC replaced		OS PN US5811264-A.	
XX Sequence 42 BP; 3 A; 12 C; 16 G; 11 T; 0 U; 0 Other;		XX PD 22-SEP-1998.	
Query Match 69.0%; Score 13.8; DB 2; Length 42;			
Best Local Similarity 88.2%; Pred. No. 8.3e+03;			
Matches 15;			
Conservative 0;			
Mismatches 2;			
Indels 0;			
Gaps 0;			
Qy 4 ACGCGCGCTCGTCGTAT 20			

XX 29-FBB-1996; 96US-00609271.
 XX 27-JAN-1994; 94US-00188374.
 XX (SOMA-) SOMATOGEN INC.
 Levine JD, Aitken JF, Apostol IZ, Lippincott JA;
 PI WPI; 1998-530871/45.
 DR Mutated protein without proline at position 4 - to eliminate N-terminal
 PT methylation.
 XX Example 1; Col 15; 26pp; English.
 CC This sequence represents a primer for a mutated haemoglobin of the
 invention. The invention relates to a mutated variant of a protein that
 has proline at position 4 and is at least partially methylated on its N-
 terminus when expressed in bacteria. The variant has an amino acid other
 than proline at position 4 and is not methylated on its N-terminus when
 expressed in bacteria. Recombinant haemoglobin that is not N-terminally
 methylated might avoid the immunological consequences implied by such
 CC methylation.
 XX Sequence 42 BP; 3 A; 12 C; 16 G; 11 T; 0 U; 0 Other;
 SQ Sequence 42 BP; 3 A; 12 C; 16 G; 11 T; 0 U; 0 Other;
 Query Match Score 13.8; DB 2; Length 42;
 Best Local Similarity 88.2%; Pred. No. 8.3e+03;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 4 ACGGCGCGTCGGTCA 20
 Db 16 ACGTACGCTCGGTTG 32
 DR RESULT 15
 AC103862_c
 ID AC103862 standard; DNA; 25 BP.
 XX
 AC AC103862;
 XX DT 13-OCT-2003 (first entry)
 XX Human microarray DNA oligonucleotide SEQ ID NO 3853.
 DE EST ss; probe; expressed sequence tag; microarray; gene expression;
 KW genetic variation; biallelic marker; polymorphism; human;
 KW cross-species comparison.
 XX Homo sapiens.
 OS US2003104410-A1.
 PN 05-JUN-2003.
 PD 15-MAR-2002; 2002US-00098263.
 XX PR 16-MAR-2001; 2001US-0276759P.
 XX PA (AFFY-) AFFYMETRIX INC.
 XX PI Mittmann MP;
 XX DR WPI; 2003-567953/53.
 XX New array of nucleic acid probes, useful for in situ hybridization, in
 PT Southern, Northern or dot-blot hybridization to identify or detect the
 PT sequence or specific mutations of any gene.
 PS Claim 1; SEQ ID NO 3853; 9pp; English.
 XX The invention discloses a microarray comprising a plurality of nucleic
 CC acid probes including one of 2,018,500 fully defined sequences, or its
 CC perfect match, perfect mismatch, antisense match or antisense mismatch.
 CC Also disclosed is a method of gene expression analysis. The array is used
 PS Example 1; Col 15; 26pp; English.

CC in monitoring gene expression levels by hybridisation to a DNA library,
CC in analysis of genetic variation or in hybridisation of tag-labelled
CC compounds. The nucleic acid probes are specifically designed for analysis
CC of at least one target sequence. The method of analysis comprises
CC hybridising at least one or more nucleic acids to at least two or more
CC nucleic acid probes and detecting the hybridisation. The nucleic acid
CC probes are attached to a solid support. The analysis comprises monitoring
CC gene expression levels, identifying biallelic markers or polymorphisms,
CC or family members of a gene and a cross-species comparison. Each of the
CC nucleic acids further comprises a tag sequence. The array of nucleic acid
CC probes is useful in *in situ* hybridisation, in Southern, Northern or dot-
CC blot hybridisation to identify or detect the sequence or specific
CC mutations of any gene, in mapping the 5' termini of mRNA molecules by
CC primer extensions or in screening cDNA or genomic libraries or subclones
CC for additional subclones containing segments of DNA that have been
CC isolated and previously sequenced. The sequence presented is one of the
CC nucleic acid probes incorporated in the microarray. Note: The sequence
CC data for this patent can also be obtained in the microarray. Note: The sequence
CC from USPTO at seqdata.uspto.gov/sequence.html.

XX
SQ Sequence 25 BP; 6 A; 8 C; 8 G; 3 T; 0 U; 0 Other;

Query Match 66.0%; Score 13.2; DB 9; Length 25;
Best Local Similarity 83.3%; Prod. No. 1.6e+04;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 2 GGACCGGGCGTCGGTCA 19
Db 24 GGACTCGTGGTCA 7

Search completed: December 13, 2005, 13:29:55
Job time : 263 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 13, 2005, 12:30:55 ; Search time 1918 Seconds
(without alignments)

Title: US-10-605-498-82

Perfect score: 20

Sequence: 1 gggacggcggtcggtcat 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 179606

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : EST:
1: gb_est1:
2: gb_est2:
3: gb_est3:
4: gb_hic:
5: gb_est4:
6: gb_est5:
7: gb_est6:
8: gb_est7:
9: gb_gss1:
10: gb_gss2:
11: gb_gss3:
12: gb_gss4:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
- 1	13.8	69.0	36	3	BR050289	BM050289 603612506	
2	13.6	68.0	49	7	COT80197	COT80197 BL009A	
3	13.4	67.0	49	3	BT166726	BT166726 603094726	
4	12.8	66.0	37	2	BG1882	BG166786 602339133	
c 5	12.8	64.0	32	2	BF131807	BF131807 60180724	
c 6	12.8	64.0	42	3	BI553162	BI553162 603197760	
c 7	12.8	64.0	50	1	AU105403	AU105403 AU105403	
c 8	12.8	64.0	50	1	AU105404	AU105404 AU105404	
c 9	12.8	64.0	50	1	AU105405	AU105405 AU105405	
c 10	12.8	64.0	50	1	AU105406	AU105406 AU105406	
c 11	12.6	63.0	50	1	AU107987	AU107987 AU107987	
c 12	12.6	63.0	50	1	AU107995	AU107995 AU107995	
c 13	12.4	62.0	26	1	AG203073	AG203073 Pan trogl	
c 14	12.4	62.0	50	1	AU105647	AU105647 AU105647	
c 15	12.4	62.0	50	1	AU105649	AU105649 AU105649	
c 16	12.2	61.0	28	1	AI287864	AI287864 qv07d12.x	
c 17	12.2	61.0	38	2	BP525570	BP525570 60209675	
c 18	12.2	61.0	45	9	AQ026252	AQ026252 1(3)13130	
c 19	12.2	61.0	50	1	AU107551	AU107551 AU107551	
c 20	12.0	60.0	31	10	AA867755	AA867755 vx16p08.x	
c 21	12.0	60.0	31	10	CZ169504	CZ169504 G05C04.G	
c 22	12.0	60.0	49	1	AI339668	AI339668 qk63c12.x	

ALIGNMENTS

RESULT 1	BM050289	LOCUS	603632006FL NIH_MGC_43	mRNA	linear	EST 07-NOV-2001
DEFINITION	mRNA sequence.					
ACCESSION	BM050289	VERPTION	GI:16779556			
KEYWORDS	EST.	SOURCE	Homo sapiens (human)			
ORGANISM	Homo sapiens		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Homo; Burchontoglires; Primates; Catarrhini; Homidae; Homo.			
COMMENT	1 (bases 1 to 36)	REFERENCE	NIH-MGC http://mgc.ncbi.nih.gov/			
		AUTHORS	National Institutes of Health, Mammalian Gene Collection (MGC)			
		TITLE	Unpublished (1999)			
		JOURNAL	Contact: Robert Straubberg, Ph.D.			
			Email: cgaobs@mail.nih.gov			
			Tissue Procurement: ATCC			
			CDNA Library Preparation: Ling Hong/Rubin Laboratory			
			DNA Sequencing by: Incyte Genomics, Inc			
			Clone distribution: MGCL clone information can be found through the I.M.A.G.E. Consortium/LINL at: http://image.llnl.gov			
			Plate: LLCM1882 row: k column: 01			
			High quality sequence stop: 33.			
			Location/Qualifiers			
			source	1. .36		
				/organism="Homo sapiens"		
				/mol_type="mRNA"		
				/db_xref="taxon:9606"		
				/clone IMAGE:54233352"		
				/tissue_type="normal pigmented retinal epithelium"		
				/lab_host="DH10B (phage-resistant)"		
				/clone lib=NIH MGC 43"		
				/note="Organ: ey; Vector: pOTB7; Site_1: XbaI; Site_2: EcoRI; DNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).		
				Note: this is a NIH_MGC Library.		

ORIGIN	KEYWORDS	EST.
Query Match 69.0%; Score 13.8; DB 3; Length 36;	Homo sapiens	Homo sapiens (human)
Best Local Similarity 88.2%; Pred. No. 8.6e+04;	ORGANISM	Homo sapiens
Matches 15; Conservative 0; Mismatches 2;	MATERIAL	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.
Qy 1 GGGAGCGGGCTCGGT 17	REFERENCE	1 - (bases 1 to 49)
Db 19 GGGGGGGGGCTCGGT 35	AUTHORS	NIH-MGC http://mgc.ncbi.nih.gov/
	TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)
	JOURNAL	Unpublished (1999)
	COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgsapbs@mail.nih.gov
RESULT 2		Tissue Procurement: Life Technologies Inc.
COT780197		cDNA Library Preparation: Life Technologies Inc.
LOCUS		cDNA Sequencing by: The I.M.A.G.E. Consortium (LNLN)
DEFINITION		CDNA Library Arrayed by: Incyte Genomics, Inc.
CDNA 5' similar to hypothetical protein, mRNA sequence.		Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNLN at: http://image.llnl.gov
ACCESSION		Plate: LLAM1162 row: C column: 07.
COT780197		Location/Qualifiers
VERSION		1.49
KEYWORDS		
ORGANISM		
Anambystoma mexicanum (axolotl)	FEATURES	
	SOURCE	
		1. mol type="mRNA"
		/db_Xref="taxon:9606"
		/clone="IMAGE:5185086"
		/lab_host="DH10B"
		/clone_id="NIH_MGC_116"
		/note="Organ: pooled colon, kidney, stomach; Vector: RNA
		PCMV-Sport6; Site 1: NotI; Site 2: EcoRI (destroyed); RNA
		source anonymous pool of 3 colons, age 26 yo male, 49 yo female, 71 yo male colon; 46 yo male kidney, and pool of 2 stomachs, 62 yo male and 70 yo female. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 023. Note: this is a NIH MGC Library."
REFERENCE	ORIGIN	
AUTHORS		Query Match 67.0%; Score 13.4; DB 3; Length 49;
1 (bases 1 to 49)		Best Local Similarity 93.3%; Pred. No. 1.3e+05;
Habermann, B., Bebin, A.G., Herklotz, S., Volkmer, M.,		Mismatches 1; Indels 0; Gaps 0;
Pehlkne, K., Epperlein, H.H., Schackert, H.K., Wiebe, G. and Tanaka, E.M.		
TITLE		
An Ambystoma mexicanum EST sequencing project: Analysis of 17,352 expressed sequence tags from embryonic and regenerating blastema cDNA libraries		
JOURNAL		
Genome Biol. (2004) In press		
COMMENT		
Tanaka Lab		
Max Planck Institute of Molecular Cell Biology and Genetics, Proutenbergstrasse 108, 01307 Dresden, Germany		
Tel: 0049 351 210 2620		
Fax: 0049 351 210 1489		
Email: tanaka@mpi-cbg.de		
Plate: BL009A row: 05 column: A		
Seq primer: GCA CAT TAG GCC TAT TTA GGT GAC A.		
Location/Qualifiers		
1..49		
/organism="Anambystoma mexicanum"		
/mol type="mRNA"		
/db_Xref="taxon:9296"		
/tissue_type="Tail Blastema"		
/cell_type="Regenerating tail blastema"		
/clone lib="6-Day Axolotl Tail Blastaem (6DAXBL)"		
/note="Vector: pCMV-Sport6, Site 1: NotI; Site 2: SalI; unnormalized cDNA plasmid library prepared by Invitrogen.		
Size fractionated mRNA was polyA primed and cloned into		
NotI-SalI site of pCMVSPORT. Bacterial host is		
EMDR10B-TONKA. Average insert size is 1.67 kb.		
TAG_LIB=6DAXBL"		
ORIGIN		
Query Match 68.0%; Score 13.6; DB 7; Length 49;		
Best Local Similarity 80.0%; Pred. No. 1e+05;		
Matches 16; Conservative 0; Mismatches 4;		
Indels 0; Gaps 0;		
Qy 1 GGGACCGGGCTCGGTAT 20		
Db 7 GGGCGGGCTCGGTAT 26		
RESULT 3		
BIT760726		
LOCUS		
DEFINITION		
603044726F1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5185086 5', mRNA sequence.		
ACCESSION		
BIT760726		
VERSION		

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: <http://image.llnl.gov>

Plate: LLAM0227 row: a column: 10

High quality sequence stop: 37.

Location/Qualifiers

1 .37

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4446993"
/tissue_type="hypernephroma, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH MGC_89"
/note="Organ: kidney; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: Sall; Cloned from: oligo-dt primed.
Average insert size 1.3 kb. Library enriched for
full-length clones and constructed by Life Technologies.
Note: this is a NIH_MGC Library."

FEATURES

source

Query Match Score 66.0%; Score 13.2%; DB 2; Length 37;
Best Local Similarity 83.3%; Pred. No. 1.6e+05;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GGGACGGCGCGTCGTC 18
Db 12 GAAACCCGGCTCTTC 29

ORIGIN

Query Match Score 66.0%; Score 13.2%; DB 2; Length 37;
Best Local Similarity 83.3%; Pred. No. 1.6e+05;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GGGACGGCGCGTCGTC 18
Db 12 GAAACCCGGCTCTTC 29

FEATURES

source

Query Match Score 66.0%; Score 13.2%; DB 2; Length 37;
Best Local Similarity 83.3%; Pred. No. 1.6e+05;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GGGACGGCGCGTCGTC 18
Db 12 GAAACCCGGCTCTTC 29

ORIGIN

Query Match Score 66.0%; Score 13.2%; DB 2; Length 37;
Best Local Similarity 83.3%; Pred. No. 1.6e+05;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GGGACGGCGCGTCGTC 18
Db 12 GAAACCCGGCTCTTC 29

FEATURES

source

Query Match Score 66.0%; Score 13.2%; DB 2; Length 37;
Best Local Similarity 83.3%; Pred. No. 1.6e+05;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GGGACGGCGCGTCGTC 18
Db 12 GAAACCCGGCTCTTC 29

ORIGIN

Query Match Score 66.0%; Score 13.2%; DB 2; Length 37;
Best Local Similarity 83.3%; Pred. No. 1.6e+05;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GGGACGGCGCGTCGTC 18
Db 12 GAAACCCGGCTCTTC 29

Sequence: 5'-ATTCTAGGGCCGGGGGCCGAGATG-dt(30)BN-3',
(where B = A, C, or G and N = A, C, G, or T). Average
insert size 1.35 kb (range 0.9-1.0 kb). 15/15 colonies
contained inserts by PCR. This library was enriched for
full-length clones and was constructed by Clontech
Laboratories (Palo Alto, CA)."

ORIGIN

Query Match Score 64.0%; Score 12.8%; DB 2; Length 32;
Best Local Similarity 87.5%; Pred. No. 2.5e+05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CGCAGCGCGGTGTAT 20
Db 27 CGCTCGCTGGTGGCT 12

RESULT 6

LOCUS BI553162 42 bp mRNA linear EST 05-SEP-2001,
DEFINITION 60319760F1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:5277350 5',
MRNA sequence.

ACCESSION BI553162
VERSION BI553162.1 GI:15440474
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominoidea; Homo.

REFERENCE 1 (bases 1 to 42)
AUTHORS NIH-MGC http://mgc.ncbi.nlm.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
Toshiyuki and Piero Carninci (RIKEN)
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LINL at:
http://image.llnl.gov
Plate: LLAM1700 row: g column: 15
High quality sequence stop: 42.
Location/Qualifiers 1 -42

FEATURES source

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="Taxon:9606"
/tissue type="hippocampus"
/lab_host="DH10B"
/clone_id="NIH_MGC_95"
/note="Organ: brain; Vector: pBluescript R (modified
pBluescript KS+); Site 1: BamHI; Site 2: Sall-XbaI
(rgtgcgag); Oligo-dT primed using primer
5'-TTTTTTTTTTTNTVN-3', size-selected for average
insert size 2.5 kb and normalized to ROT 5. This is a
primary library enriched for full-length clones and
constructed using the Cap-trapper method (Carninci, in
preparation). Library constructed by M. Brownstein
(NIH/NHGRI, National Institutes of Health). Note: this
is a NIH_MGC Library."

ORIGIN

Query Match Score 64.0%; Score 12.8%; DB 3; Length 42;
Best Local Similarity 87.5%; Pred. No. 2.4e+05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGACGGCGCGTCGTC 16

Db	8	GAGACGGGAGCTGG	23
RESULT	7		
AUTHORS	AU105403/c		
LOCUS	AU105403 Sugano Homo sapiens mRNA sequence.	50 bp mRNA	linear EST 28-JAN-2004
DEFINITION	AU105403 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone		
ACCESSION	AU105403		
VERSION	AU105403.1	GI:13554924	
SOURCE	Homo sapiens (human)		
ORGANISM	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.		
COMMENT	1. (bases 1 to 50) Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakai,Y., Nakamura,Y., Sugano,A. and Sugano,S. Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites EMBO Rep. 2 (5), 388-393 (2001) Contact: Yutaka Suzuki Department of Virology Institute of Medical Science, University of Tokyo 4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan Email: yusuzki@ims.u-tokyo.ac.jp Suzuki,Y., Yoshihito Nakagawa,K., Maruyama,K., Sugama,A. and Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).		
FEATURES	source		
ORIGIN			
Qy	1. .50	/organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone_lib="Sugano Homo sapiens cDNA library"	
Db	48	GGACCGAGGCTCGCT 33	
FEATURES	source		
ORIGIN			
Qy	2	GGACCGGGCTCGCT 17	
Db	48	GGACCGAGGCTCGCT 33	
FEATURES	source		
ORIGIN			
Qy	3	GGACCGGGCTCGCT 17	
Db	48	GGACCGAGGCTCGCT 33	
FEATURES	source		
ORIGIN			
Qy	4	GGACCGGGCTCGCT 17	
Db	48	GGACCGAGGCTCGCT 33	
FEATURES	source		
ORIGIN			
Qy	5	GGACCGGGCTCGCT 17	
Db	48	GGACCGAGGCTCGCT 33	
FEATURES	source		
ORIGIN			
Qy	6	GGACCGGGCTCGCT 17	
Db	48	GGACCGAGGCTCGCT 33	
FEATURES	source		
ORIGIN			
Qy	7	GGACCGGGCTCGCT 17	
Db	48	GGACCGAGGCTCGCT 33	
FEATURES	source		
ORIGIN			
Qy	8	GGACCGGGCTCGCT 17	
Db	42	GGACCGGGCTCGCT 27	
FEATURES	source		
ORIGIN			
Qy	9	GGACCGGGCTCGCT 17	
Db	42	GGACCGGGCTCGCT 27	
FEATURES	source		
ORIGIN			
Qy	10	GGACCGGGCTCGCT 17	
Db	42	GGACCGGGCTCGCT 27	

RESULT 10
 AU105406/c
 LOCUS AU105406 Sugano Homo sapiens mRNA linear EST 28-JAN-2004
 DEFINITION AU105406 Sugano Homo sapiens cDNA library Homo sapiens CDNA clone
 AU05406 mRNA sequence.
 ACCESSION AU105406
 VERSION AU105406.1 GI:13554927
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Hominidae; Homo.
 1. (bases 1 to 50)

Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J.,
 Hata,H., Ota,T., Isozai,T., Tanaka,T., Morishita,S., Okubo,K.,
 Sakaki,Y., Nakamura,Y., Sugama,A. and Sugano,S.
 Diverse transcriptional initiation revealed by fine, large-scale
 mapping of mRNA start sites
 EMBO Rep. 2 (5), 388-393 (2001)
 11375929

Contact: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
 Email: ysuzuki@ims.u-tokyo.ac.jp

Title: Sugano, S. Construction and characterization of a full-length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES source
 Query Match 64.0%; Score 12.8; DB 1; Length 50;
 Best Local Similarity 87.5%; Pred. No. 2.3e+05;
 Matches 14; Conservative 0; Mismatches 2;
 Indels 0; Gaps 0;
 /clone_lib="Sugano Homo sapiens cDNA library"
 Db 16 GGACCCGGGCTCGCT 17
 16 GGACCCGGGCTCGCT 1

ORIGIN
 Query Match 64.0%; Score 12.8; DB 1; Length 50;
 Best Local Similarity 87.5%; Pred. No. 2.3e+05;
 Matches 14; Conservative 0; Mismatches 2;
 Indels 0; Gaps 0;
 /clone_lib="Sugano Homo sapiens cDNA library"
 Db 16 GGACCCGGGCTCGCT 17
 16 GGACCCGGGCTCGCT 1

COMMENT

REFERENCE
 AUTHORS Hata,H., Ota,T., Isozai,T., Tanaka,T., Morishita,S., Okubo,K.,
 Sakaki,Y., Nakamura,Y., Sugama,A. and Sugano,S.
 Diverse transcriptional initiation revealed by fine, large-scale
 mapping of mRNA start sites
 JOURNAL EMBO Rep. 2 (5), 388-393 (2001)
 11375929

Contact: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
 Email: ysuzuki@ims.u-tokyo.ac.jp

Title: Sugano, S. Construction and characterization of a full-length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES source
 Query Match 64.0%; Score 12.8; DB 1; Length 50;
 Best Local Similarity 87.5%; Pred. No. 2.3e+05;
 Matches 14; Conservative 0; Mismatches 2;
 Indels 0; Gaps 0;
 /clone_lib="Sugano Homo sapiens cDNA library"
 Db 16 GGACCCGGGCTCGCT 17
 16 GGACCCGGGCTCGCT 1

COMMENT

REFERENCE
 AUTHORS Hata,H., Ota,T., Isozai,T., Tanaka,T., Morishita,S., Okubo,K.,
 Sakaki,Y., Nakamura,Y., Sugama,A. and Sugano,S.
 Diverse transcriptional initiation revealed by fine, large-scale
 mapping of mRNA start sites
 JOURNAL EMBO Rep. 2 (5), 388-393 (2001)
 11375929

Contact: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo

RESULT 11
 AU07987/c
 LOCUS AU07987 Sugano Homo sapiens mRNA linear EST 28-JAN-2004
 DEFINITION AU07987 Sugano Homo sapiens cDNA library Homo sapiens CDNA clone
 CASO4356, mRNA sequence.
 ACCESSION AU07987
 VERSION AU07987.1 GI:13557509
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Hominidae; Homo.
 1. (bases 1 to 50)

Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J.,
 Hata,H., Ota,T., Isozai,T., Tanaka,T., Morishita,S., Okubo,K.,
 Sakaki,Y., Nakamura,Y., Sugama,A. and Sugano,S.
 Diverse transcriptional initiation revealed by fine, large-scale
 mapping of mRNA start sites
 EMBO Rep. 2 (5), 388-393 (2001)

Contact: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo

RESULT 13

4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
 Email: ysuzuki@ims.u-tokyo.ac.jp
 Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Sugama,A. and Sugano,S. Construction and characterization of a full-length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES source
 1. .50
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="CAS04356"
 /clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN
 Query Match 63.0%; Score 12.6; DB 1; Length 50;
 Best Local Similarity 78.9%; Pred. No. 2.9e+05;
 Matches 15; Conservative 0; Mismatches 4;
 Indels 0; Gaps 0;

Qy 1 GGGAGCGCGCTGCTGGTCA 19
 Db 49 GGGCGGCGGCGCGCAGACA 31

RESULT 12
 AU10795/c
 LOCUS AU10795 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
 DEFINITION KAIKA2600, mRNA sequence.
 ACCESSION AU10795
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Eukaryota; Metazoa; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 50)
 AUTHORS Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isozai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Sugama,A. and Sugano,S.
 TITLE Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
 JOURNAL EMBO Rep. 2 (5), 388-393 (2001)
 PUBMED 11375929
 COMMENT Contact: Yutaka Suzuki
 Department of Virology
 Institute of Medical Science, University of Tokyo
 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
 Email: ysuzuki@ims.u-tokyo.ac.jp
 Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Sugama,A. and Sugano,S. Construction and characterization of a full-length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES source
 1. .50
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="KATA2600"
 /clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN
 Query Match 63.0%; Score 12.6; DB 1; Length 50;
 Best Local Similarity 78.9%; Pred. No. 2.9e+05;
 Matches 15; Conservative 0; Mismatches 4;
 Indels 0; Gaps 0;

Qy 1 GGGAGCGCGCTGCTGGTCA 19
 Db 45 GGGCGGCAGCGCGCAGACA 27

AG203073	AG203073	26 bp DNA, clone: RP43-087B01.T7, genomic survey sequence.	GSS 06-MAR-2004	JOURNAL EMBO Rep. 2 (5), 388-393 (2001)
DEFINITION	Pan troglodytes DNA, clone: RP43-087B01.T7, genomic survey sequence.			COMMENT mapping of mRNA start sites Email: 11375929
ACCESSION	AG203073			Contact: Yutaka Suzuki
VERSION	AG203073.1	GI: 45235248		Institute of Virology
KEYWORDS	SSS.			Institute of Medical Science, University of Tokyo
ORGANISM	Pan troglodytes (chimpanzee)			4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan
REFERENCE	1	Park, H.; Kim, Y.; Kim, S.; Han, Y.; Woo, T.; Park, K.; Eun, C.J.; Hoon, S.T.; Chu, M.; Kim, H.; Joo, S.; Kim, C.; Song, W. and Yoo, H. BAC end sequences of Library RP-43 (bases 1 to 26) Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of Bioscience and Biotechnology (RIBI), Genome Research Center (GRC); 52 Oun-dong, Yusong-gu, Daejeon 305-333, Korea (E-mail: redstone@mail.kribb.re.kr; URL: http://phs.grc.kribb.re.kr/, Tel: 82-42-866-7181; Fax: 82-42-860-4409) Clones are derived from the chimpanzee BAC library RP-43. This BAC end was generated during the R&D process and may have higher chance of clone tracking errors.		Email: yuszuki@ims.u-tokyo.ac.jp
AUTHORS				Suzuki, Y., Yoshiyomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano, S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
FEATURES	source			Location/Qualifiers 1..50 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="HS100961" /clone_lib="Sugano Homo sapiens cDNA library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-43 Chimpanzee Male BAC Library"
ORIGIN				
PRIMERS				
SEQUENCING:	T7			
LIBRARY				
VECTOR	:	pBACe3.6		
R.Site 1	:	EcoRI		
R.Site 2	:	EcoRI		
FEATURES	source			Location/Qualifiers 1..26 /organism="Pan troglodytes" /mol_type="genomic DNA" /db_xref="Exon:9598" /clone="RP43-087B01.T7" /sex="male" /cell_type="lymphocytes" /clone_lib="RP-4

Qy 1 GGGACCGGGCTC 14
 | | | | | | | | | | | |
 17 GTGAGCGGGCTC 4
Db

Search completed: December 13, 2005, 14:30:26
Job time : 1921 secs

THIS PAGE BLANK (USPTO)

Result No.	Score	Query Match	Length	DB ID	Description
1	14.2	71.0	33	3 US-09-977-137A-16	Sequence 16, Appl
C 2	12.14	70.0	25	3 US-09-396-196G-42173	Sequence 42173, A
C 3	13.8	69.0	25	3 US-09-396-196G-46323	Sequence 46323, A
C 4	13.8	69.0	25	3 US-09-396-196G-46324	Sequence 46324, A
C 5	13.8	69.0	25	3 US-09-396-196G-46335	Sequence 46335, A
C 6	13.8	69.0	42	2 US-08-153-071-14	Sequence 14, Appl
C 7	13.8	69.0	42	2 US-08-159-271-21	Sequence 21, Appl
C 8	13.8	69.0	42	2 US-08-438-511-14	Sequence 14, Appl
C 9	13.8	69.0	42	2 US-08-487-531-21	Sequence 17, Appl
C 10	13.8	69.0	42	3 US-08-188-374-21	Sequence 21, Appl
C 11	13.8	69.0	42	3 US-08-973-629-17	Sequence 17, Appl
C 12	13.2	66.0	25	3 US-09-396-196G-53201	Sequence 53201, A
C 13	13.13	65.0	20	3 US-09-046-858A-19	Sequence 19, Appl
C 14	13.13	65.0	20	3 US-09-450-515-19	Sequence 19, Appl
C 15	13.65	65.0	20	3 US-10-206-634-19	Sequence 19, Appl
C 16	12.8	64.0	37	3 US-08-944-410-47	Sequence 47, Appl
C 17	12.8	64.0	40	2 US-08-425-684-86	Sequence 86, Appl
C 18	12.8	64.0	40	2 US-08-125-634-128	Sequence 128, Appl
C 19	12.8	64.0	40	2 US-08-675-502-86	Sequence 86, Appl
C 20	12.8	64.0	40	2 US-08-675-502-128	Sequence 128, Appl
C 21	12.8	64.0	40	3 US-09-345-802-86	Sequence 86, Appl
C 22	12.8	64.0	40	3 US-09-245-802-128	Sequence 128, Appl
C 23	12.6	63.0	20	3 US-10-131-827-8773	Sequence 8773, Appl
C 24	12.6	63.0	24	3 US-09-540-014-35	Sequence 35, Appl

PRIOR FILING DATE: 1998-09-17
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 42173
 LENGTH: 25
 TYPE: DNA
 ORGANISM: Mus musculus
 US-09-396-196G-42173

Query Match 69.0%; Score 13.8; DB 3; Length 25;
 Best Local Similarity 88.2%; Pred. No. 4.6e+03;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 7 CGGCCCTCGGTCA T 20
 Db 20 CGGCCCTCGGTCA T 7

RESULT 3
 Patent No. 6821724
 Sequence 46323, Application US/09396196G
 GENERAL INFORMATION:
 APPLICANT: Michael Mittmann
 ATTORNEY: David Mack
 APPLICANT: David Lockhart
 APPLICANT: Affymetrix, Inc.
 TITLE OF INVENTION: Methods of Genetic Analysis

CURRENT APPLICATION NUMBER: US/09/396,196G
 CURRENT FILING DATE: 1998-09-15
 PRIORITY NUMBER: 60/100,678
 PRIORITY FILING DATE: 1998-09-17
 NUMBER OF SEQ ID NOS: 127806
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 46323
 LENGTH: 25
 TYPE: DNA
 ORGANISM: mus musculus
 US-09-396-196G-46323

Query Match 69.0%; Score 13.8; DB 3; Length 25;

Best Local Similarity 88.2%; Pred. No. 4.6e+03;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 ACGGGCGCTCGGTCA T 20
 Db 20 ACGGTGCGACGGTCA T 4

RESULT 4
 Patent No. 6821724
 Sequence 46324, Application US/09396196G
 GENERAL INFORMATION:
 APPLICANT: Michael Mittmann
 ATTORNEY: David Mack
 APPLICANT: David Lockhart
 APPLICANT: Affymetrix, Inc.
 TITLE OF INVENTION: Methods of Genetic Analysis

FILE REFERENCE: 3101.1
 CURRENT APPLICATION NUMBER: US/09/396,196G
 CURRENT FILING DATE: 1998-09-15
 PRIORITY NUMBER: 60/100,678
 NUMBER OF SEQ ID NOS: 127806
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 46324
 LENGTH: 25
 TYPE: DNA
 ORGANISM: mus musculus
 US-09-396-196G-46324

Query Match 69.0%; Score 13.8; DB 3; Length 25;
 Best Local Similarity 88.2%; Pred. No. 4.6e+03;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 4 ACGGGCGCTCGGTCA T 20
 Db 19 ACGGTGCACGTCAT 3

RESULT 5
 US-09-396-196G-46335/C
 Sequence 46335, Application US/09396196G
 Patent No. 682174
 GENERAL INFORMATION:
 APPLICANT: Michael Mittmann
 ATTORNEY: David Mack
 APPLICANT: David Lockhart
 APPLICANT: Affymetrix, Inc.
 TITLE OF INVENTION: Methods of Genetic Analysis
 CURRENT APPLICATION NUMBER: US/09/396,196G
 CURRENT FILING DATE: 1998-09-15
 PRIORITY NUMBER: 60/100,678
 PRIOR FILING DATE: 1998-09-17
 NUMBER OF SEQ ID NOS: 127806
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 46335
 LENGTH: 25
 TYPE: DNA
 ORGANISM: mus musculus
 US-09-396-196G-46335

Query Match 69.0%; Score 13.8; DB 3; Length 25;
 Best Local Similarity 88.2%; Pred. No. 4.6e+03;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 4 ACGGGCGCTCGGTCA T 20
 Db 18 ACGGTGCACGTCAT 2

RESULT 6
 US-09-396-196G-46336/C
 Sequence 46336, Application US/09396196G
 Patent No. 682174
 GENERAL INFORMATION:
 APPLICANT: Ryland, James R.
 ATTORNEY: Matthews, Maure-Ann H.
 APPLICANT: Branst, Ulrich P.
 APPLICANT: Houk, Daniel E.
 APPLICANT: Taylor, David W.
 APPLICANT: Williams, Lee R.
 APPLICANT: Mitchell, David J.
 APPLICANT: Chivers, Mark L.
 APPLICANT: Belval, Thomas K.
 TITLE OF INVENTION: Method for the Rapid Removal of
 PROTOPORPHYRIN IX from Protoporphyrin IX-Containing Solutions
 NUMBER OF SEQUENCES: 20
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Sonatogen, Inc.
 STREET: 5797 Central Avenue
 CITY: Boulder
 STATE: Colorado
 ZIP: 80301
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb storage
 COMPUTER: Apple Macintosh
 OPERATING SYSTEM: System 7.0.1
 SOFTWARE: Microsoft Word 5.0a
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/153,071
 FILING DATE: No. 5665869ember 15, 1993
 CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:
 NAME: No. 5655869ak, Henry P.
 REGISTRATION NUMBER: 33200
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 303-541-3322
 TELEFAX: 303-444-3013
 INFORMATION FOR SEQ ID NO: 14:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 42
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: primer for pBR322 ori positions
 MOLECULE TYPE: 2380-2404
 HYPOTHETICAL: no
 US-08-153-071-14

Query Match 69.0%; Score 13.8; DB 2; Length 42;
 Best Local Similarity 88.2%; Pred. No. 4.4e+03;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 ACGGCGCGCTGGTCAAT 20
 Db 16 ACGCTSGCTCGTCGT 32

RESULT 7
 US-08-609-271-21
 Sequence 21, Application US/08609271
 Patent No. 5611264

GENERAL INFORMATION:
 APPLICANT: Aitken, Jacqueline F.
 APPLICANT: Apostol, Izidor Z.
 APPLICANT: Lippincott, Julie A.
 APPLICANT: Levine, Joseph D.
 TITLE OF INVENTION: Proteins with Mutations to Decrease N-Terminal Methylation
 NUMBER OF SEQUENCES: 42
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Somatogen, Inc.
 STREET: 2545 Central Avenue, Site FD-1
 CITY: Boulder
 STATE: Colorado
 ZIP: 80301

COMPUTER READABLE FORM:
 COMPUTER: Apple Macintosh, 3.50 inch, 1.4 Mb storage
 OPERATING SYSTEM: System 7.0.1
 SOFTWARE: Microsoft Word 5.0a
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/609,271
 FILING DATE: 28 February 1996
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/188,374
 FILING DATE: 1/27/94
 ATTORNEY/AGENT INFORMATION:
 NAME: No. 5611264elli, Marianne F.
 REGISTRATION NUMBER: 38571
 NAME: Brown, Theresa A.
 REGISTRATION NUMBER: 32547
 REFERENCE/DOCKET NUMBER: 170/div
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 303-541-3324
 TELEFAX: 303-444-3013
 INFORMATION FOR SEQ ID NO: 21:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 42
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: primer for pBR322 ori positions 2380-2404
 HYPOTHETICAL: no

US-08-609-271-21
 Query Match 69.0%; Score 13.8; DB 2; Length 42;
 Best Local Similarity 88.2%; Pred. No. 4.4e+03;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

RESULT 8
 US-08-438-511-14
 Sequence 14, Application US/08438511
 Patent No. 5840851

GENERAL INFORMATION:
 APPLICANT: Plomer, J. Jeffrey
 APPLICANT: Ryland, James R.
 APPLICANT: Matthews, Maura-Ann H.
 APPLICANT: Taylor, David W.
 APPLICANT: Milne, Erin E.
 APPLICANT: Durfee, Steven L.
 APPLICANT: Mathews, Antony J.
 APPLICANT: Neway, Justin O.
 TITLE OF INVENTION: Purification of Hemoglobin
 NUMBER OF SEQUENCES: 20
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Somatogen, Inc.
 STREET: 2545 Central Avenue, Suite FD1
 CITY: Boulder
 STATE: Colorado
 ZIP: 80301

COMPUTER READABLE FORM:
 COMPUTER: Apple Macintosh, 3.50 inch, 1.4 Mb storage
 OPERATING SYSTEM: System 7.0.1
 SOFTWARE: Microsoft Word 5.0a
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/438,511
 FILING DATE: 10 May 1995
 CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/339,304
 FILING DATE: No. 5840851ember 14, 1994
 CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/097,273
 FILING DATE: July 23, 1993
 ATTORNEY/AGENT INFORMATION:
 NAME: 5840851elli, Marianne F.
 REGISTRATION NUMBER: 38571
 REFERENCE/DOCKET NUMBER: 191
 ATTORNEY/AGENT INFORMATION:
 NAME: Brown, Theresa A.
 REGISTRATION NUMBER: 32,547
 REFERENCE/DOCKET NUMBER: 191
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 303-541-3324
 TELEFAX: 303-444-3013
 INFORMATION FOR SEQ ID NO: 14:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 42
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: primer for pBR322 ori positions 2380-2404
 HYPOTHETICAL: no

US-08-438-511-14
 Query Match 69.0%; Score 13.8; DB 2; Length 42;
 Best Local Similarity 88.2%; Pred. No. 4.4e+03;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 ACGGCGCGCTGGTCAAT 20

CURRENT APPLICATION NUMBER: US/09/396,196G
 CURRENT FILING DATE: 1999-09-15
 PRIOR APPLICATION NUMBER: 60/100,678
 PRIOR FILING DATE: 1998-09-17
 NUMBER OF SEQ ID NOS: 127006
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 53101
 LENGTH: 25
 TYPE: DNA
 US-09-396-196G-53301
 ; mus musculus

Query Match 66.0%; Score 13.2; DB 3; Length 25;
 Best Local Similarity 83.3%; Pred. No. 8.3e+03;
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 3 GACGGCGCTGGTCAT 20
 Db 2 GACCCAGCGCTGTCA 19

RESULT 13
 US-09-046-858A-19
 Sequence 19, Application US/09046858A
 Patent No. 6048973
 GENERAL INFORMATION:
 APPLICANT: Rodriguez, Raymond L.
 TITLE OF INVENTION: SUGAR-REGULATORY SEQUENCES
 NUMBER OF SEQUENCES: 21
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dehlinger & Associates
 STREET: PO Box 60850
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94306
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 OPERATING SYSTEM: DOS
 SOFTWARE: FASTSEQ for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/450,515
 FILING DATE: 29-NO-66804/25-1999
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 09/046,858
 FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: Dehlinger, Peter J.
 REGISTRATION NUMBER: 28,006
 REFERENCE/DOCKET NUMBER: 2000-0456.30
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650-324-0880
 TELEFAX: 650-324-0960
 TELEX: <Unknown>
 INFORMATION FOR SEQ ID NO: 19:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 20 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 19:

US-09-450-515-19
 Query Match 65.0%; Score 13; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 1e+04;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 3 GACGGGGCCTCG 15
 Db 2 GACGGGGCCTCG 14

RESULT 15
 US-10-206-654-19
 Sequence 19, Application US/10206654
 Patent No. 6919493
 GENERAL INFORMATION:
 APPLICANT: Rodriguez, Raymond L.
 TITLE OF INVENTION: SUGAR-REGULATORY SEQUENCES
 NUMBER OF SEQUENCES: 21
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dehlinger & Associates
 STREET: PO Box 60850
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94306
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette

Query Match 65.0%; Score 13; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 1e+04;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 3 GACGGGGCCTCG 15
 Db 2 GACGGGGCCTCG 14

CURRENT APPLICATION NUMBER: US/09/396,196G
 CURRENT FILING DATE: 1999-09-15
 PRIOR APPLICATION NUMBER: 60/100,678
 PRIOR FILING DATE: 1998-09-17
 NUMBER OF SEQ ID NOS: 127006
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 53101
 LENGTH: 25
 TYPE: DNA
 US-09-396-196G-53301
 ; mus musculus

Query Match 66.0%; Score 13.2; DB 3; Length 25;
 Best Local Similarity 83.3%; Pred. No. 8.3e+03;
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 3 GACGGCGCTGGTCAT 20
 Db 2 GACCCAGCGCTGTCA 19

RESULT 14
 US-09-450-515-19
 Sequence 19, Application US/09450515
 Patent No. 6680425
 GENERAL INFORMATION:
 APPLICANT: Rodriguez, Raymond L.
 TITLE OF INVENTION: SUGAR-REGULATORY SEQUENCES
 NUMBER OF SEQUENCES: 21
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dehlinger & Associates
 STREET: PO Box 60850
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94306
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 OPERATING SYSTEM: DOS
 SOFTWARE: FASTSEQ for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/450,515
 FILING DATE: 29-NO-66804/25-1999
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 09/046,858
 FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: Dehlinger, Peter J.
 REGISTRATION NUMBER: 28,006
 REFERENCE/DOCKET NUMBER: 2000-0456.30
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650-324-0880
 TELEFAX: 650-324-0960
 TELEX: <Unknown>
 INFORMATION FOR SEQ ID NO: 19:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 20 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 19:

US-09-450-515-19
 Query Match 65.0%; Score 13; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 1e+04;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 3 GACGGGGCCTCG 15
 Db 2 GACGGGGCCTCG 14

RESULT 15
 US-10-206-654-19
 Sequence 19, Application US/10206654
 Patent No. 6919493
 GENERAL INFORMATION:
 APPLICANT: Rodriguez, Raymond L.
 TITLE OF INVENTION: SUGAR-REGULATORY SEQUENCES
 NUMBER OF SEQUENCES: 21
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dehlinger & Associates
 STREET: PO Box 60850
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94306
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette

Query Match 65.0%; Score 13; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 1e+04;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 3 GACGGGGCCTCG 15
 Db 2 GACGGGGCCTCG 14

COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEO for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/206,654
FILING DATE: 25-JUL-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/046,858A
FILING DATE: 24-MAR-1998
APPLICATION NUMBER: 60/042,376
FILING DATE: 24-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Delinger, Peter J.
REGISTRATION NUMBER: 28,006
REFERENCE/DOCKET NUMBER: 2000-0456.30
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-324-0880
TELEFAX: 650-324-0860
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-10-206-654-19

Query Match 65.0%; Score 13; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1e+04;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 GACCGGGCCCTCG 15
Db 2 GACCGGGCCCTCG 14

Search completed: December 13, 2005, 14:32:05
Job time : 95 SECs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 13, 2005, 13:25:43 ; Search time 445 Seconds
(without alignments)
371.657 Million cell updates/sec

Title: US-10-605-498-82
Perfect Score: 20
Sequence: 1 gggacggcggtcggtcat 20

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 11091250

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA_Main.*
1: /cgn_6/prodata/1/pubpna/us07_pubcomb.seq:
2: /cgn2_6/prodata/1/pubpna/us08_pubcomb.seq:
3: /cgn2_6/prodata/1/pubpna/us09_pubcomb.seq:
4: /cgn_6/prodata/1/pubpna/us10a_pubcomb.seq:
5: /cgn2_6/prodata/1/pubpna/us10a_pubcomb.seq:
6: /cgn2_6/prodata/1/pubpna/us10b_pubcomb.seq:
7: /cgn_6/prodata/1/pubpna/us10c_pubcomb.seq:
8: /cgn2_6/prodata/1/pubpna/us10d_pubcomb.seq:
9: /cgn2_6/prodata/1/pubpna/us10e_pubcomb.seq:
10: /cgn2_6/prodata/1/pubpna/us11_pubcomb.seq:
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Sequence 912027,
Sequence 910401,
Sequence 3853, Ap
Sequence 65789, A
Sequence 65789-5
Sequence 547922,
Sequence 547833,
Sequence 148603,
Sequence 849503,
Sequence 849514,
Sequence 53301, A
Sequence 321539,
Sequence 787134,
Sequence 166335,
Sequence 166384,
Sequence 223339,
Sequence 223340,
Sequence 48, Appl
Sequence 48, Appl
Sequence 48, Appl
Sequence 54, Appl
Sequence 48, Appl

ALIGNMENTS

RESULT 1
US-10-605-498-82
; Sequence 82, Application US/10605498
; Publication No. US20040127441A1
; GENERAL INFORMATION:
; APPLICANT: Gleave, Martin
; INVENTOR: Rocchi, Palma
; SIGNATURE: Sigmaevsky, Maxim
; TITLE OF INVENTION: Compositions and Methods for Treatment of Prostate and Other Cancers
; FILE REFERENCE: UBC-P-031
; CURRENT APPLICATION NUMBER: US/10/605,498
; CURRENT FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,859
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: US 60/463,952
; PRIOR FILING DATE: 2003-04-18
; NUMBER OF SEQ ID NOS: 91
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 82
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-605-498-82

Query Match 100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGAGCGCGGCGCTGGGTCA T 20
Db 1 GGAGCGGAGCGCTGGTCA T 20

RESULT 2
US-10-605-498-81
; Sequence 81, Application US/10605498
; Publication No. US20040127441A1
; GENERAL INFORMATION:
; APPLICANT: Gleave, Martin
; INVENTOR: Rocchi, Palma
; SIGNATURE: Sigmaevsky, Maxim
; TITLE OF INVENTION: Compositions and Methods for Treatment of Prostate and Other Cancers
; FILE REFERENCE: UBC P-031
; CURRENT APPLICATION NUMBER: US/10/605,498

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	7 US-10-605-498-82	Sequence 82, Appl
2	20	100.0	21	7 US-10-605-498-81	Sequence 81, Appl
c 3	19	95.0	19	7 US-10-605-498-90	Sequence 90, Appl
c 4	16	80.0	21	7 US-10-605-498-3	Sequence 3, Appl
c 5	15.2	76.0	25	7 US-10-605-498-15321	Sequence 13521,
c 6	15	75.0	21	7 US-10-605-498-4	Sequence 4, Appl
7	14.2	71.0	25	10 US-11-036-317-2611850	Sequence 2611850,
8	14.2	71.0	25	10 US-11-036-317-330516	Sequence 26817,
9	14.2	71.0	25	10 US-11-036-317-332488	Sequence 330516,
10	14.2	71.0	25	10 US-11-036-317-364465	Sequence 332488,
11	14.2	71.0	25	10 US-11-036-317-406575	Sequence 364465,
12	14.2	71.0	25	10 US-11-036-317-5336426	Sequence 406575,
13	14.2	71.0	25	10 US-11-036-317-536426	Sequence 5336426,
14	14.2	71.0	25	10 US-11-036-317-536427	Sequence 53427,
15	14.2	71.0	33	3 US-09-77-137A-16	Sequence 16, Appl
16	14	70.0	25	5 US-10-215-112-7242	Sequence 7242, Ap
c 17	14	70.0	25	9 US-10-609-189-42173	Sequence 42173, A
c 18	13.8	69.0	25	9 US-10-809-189-45323	Sequence 46323, A
c 19	13.8	69.0	25	9 US-10-809-189-46324	Sequence 46324, A
c 20	13.8	69.0	25	9 US-10-809-189-46335	Sequence 46335, A
c 21	13.6	68.0	25	7 US-10-719-956-15322	Sequence 13522,
c 22	13.6	68.0	25	7 US-10-719-956-198103	Sequence 198103,
c 23	13.6	68.0	25	8 US-10-719-900-309243	Sequence 309243,

```

; CURRENT FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,859
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: US 60/463,952
; PRIOR FILING DATE: 2003-04-18
; NUMBER OF SEQ ID NOS: 91
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 81
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-605-498-81

Query Match 100.0%; Score 20; DB 7; Length 21;
Best Local Similarity 100.0%; Prod. No. 5.5%; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGACGGCGCGCTGGTCAT 20
Db 2 GGGACGGCGCGCTGGTCAT 21

RESULT 5
US-10-19-956-135321/c
Query Match 80.0%; Score 16; DB 7; Length 21;
Best Local Similarity 100.0%; Prod. No. 4.9e+02; Mismatches 0; Indels 0; Gaps 0;
Matches 16; Conservative 0;

Qy 5 CGCGCGCTCGGTCA 20
Db 1 CGCGCGCTCGGTCA 16

; NUMBER OF SEQ ID NOS: 91
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO: 135321
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-10-19-956-135321

Query Match 76.0%; Score 15.2; DB 7; Length 25;
Best Local Similarity 85.0%; Prod. No. 1.2e+03; Mismatches 3; Indels 0; Gaps 0;
Matches 17; Conservative 0;

Qy 1 GGGAGCGGCGCTCGGTCA 20
Db 25 GGGAGCGAACGCTCGGCCAT 6

RESULT 6
US-10-05-498-4
Query Match 95.0%; Score 19; DB 7; Length 19;
Best Local Similarity 100.0%; Prod. No. 17; Mismatches 0; Indels 0; Gaps 0;
Matches 19; Conservative 0;

Qy 2 GGAGCGGGCGCTCGGTCA 20
Db 19 GGACCCGGCGCTCGGTCA 1

RESULT 4
US-10-605-498-3
Query Match 75.0%; Score 15; DB 7; Length 21;
Best Local Similarity 100.0%; Prod. No. 1.5e+03;
Matches 16; Conservative 0;

Qy 5 CGCGCGCTCGGTCA 20
Db 1 CGCGCGCTCGGTCA 16

```

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0; ; APPLICANT: Blume, John
 Qy 1 GGGACCGGCCCTCG 15 ; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
 ; FILE REFERENCE: 3654.1
 ; CURRENT APPLICATION NUMBER: US/11/036,317
 ; CURRENT FILING DATE: 2005-01-13
 ; PRIORITY APPLICATION NUMBER: US 60/536,639
 ; PRIORITY FILING DATE: 2004-01-13
 ; NUMBER OF SEQ ID NOS: 991174
 ; SOFTWARE: Microarray Probe Sequence Listing Generator v 1.1
 ; SEQ ID NO 330516
 ; LENGTH: 25
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 US-11-036-317-330516

RESULT 7
 US-11-036-317-261850
 ; Sequence 261850, Application US/11036317
 ; Publication No. US20050214823A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Williams, Alan
 ; ATTORNEY: Blume, John
 ; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
 ; FILE REFERENCE: 3654.1
 ; CURRENT APPLICATION NUMBER: US/11/036,317
 ; CURRENT FILING DATE: 2005-01-13
 ; PRIORITY APPLICATION NUMBER: US 60/536,639
 ; PRIOR FILING DATE: 2004-01-13
 ; NUMBER OF SEQ ID NOS: 991174
 ; SOFTWARE: Microarray Probe Sequence Listing Generator v 1.1
 ; SEQ ID NO 261850
 ; LENGTH: 25
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 US-11-036-317-261850

Query Match 71.0%; Score 14.2; DB 10; Length 25;
 Best Local Similarity 84.2%; Pred. No. 3.6e+03;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 ; APPLICANT: Williams, Alan
 ; ATTORNEY: Blume, John
 ; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
 ; FILE REFERENCE: 3654.1
 ; CURRENT APPLICATION NUMBER: US/11/036,317
 ; CURRENT FILING DATE: 2005-01-13
 ; PRIORITY APPLICATION NUMBER: US 60/536,639
 ; PRIORITY FILING DATE: 2004-01-13
 ; NUMBER OF SEQ ID NOS: 991174
 ; SOFTWARE: Microarray Probe Sequence Listing Generator v 1.1
 ; SEQ ID NO 332488
 ; LENGTH: 25
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 US-11-036-317-332488

RESULT 10
 US-11-036-317-332488
 ; Sequence 332488, Application US/11036317
 ; Publication No. US20050214823A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Williams, Alan
 ; ATTORNEY: Blume, John
 ; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
 ; FILE REFERENCE: 3654.1
 ; CURRENT APPLICATION NUMBER: US/11/036,317
 ; CURRENT FILING DATE: 2005-01-13
 ; PRIORITY APPLICATION NUMBER: US 60/536,639
 ; PRIORITY FILING DATE: 2004-01-13
 ; NUMBER OF SEQ ID NOS: 991174
 ; SOFTWARE: Microarray Probe Sequence Listing Generator v 1.1
 ; SEQ ID NO 332488
 ; LENGTH: 25
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 US-11-036-317-332488

Query Match 71.0%; Score 14.2; DB 10; Length 25;
 Best Local Similarity 84.2%; Pred. No. 3.6e+03;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 ; APPLICANT: Williams, Alan
 ; ATTORNEY: Blume, John
 ; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
 ; FILE REFERENCE: 3654.1
 ; CURRENT APPLICATION NUMBER: US/11/036,317
 ; CURRENT FILING DATE: 2005-01-13
 ; PRIORITY APPLICATION NUMBER: US 60/536,639
 ; PRIORITY FILING DATE: 2004-01-13
 ; NUMBER OF SEQ ID NOS: 991174
 ; SOFTWARE: Microarray Probe Sequence Listing Generator v 1.1
 ; SEQ ID NO 332488
 ; LENGTH: 25
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 US-11-036-317-332488

RESULT 8
 US-11-036-317-269817
 ; Sequence 269817, Application US/11036317
 ; Publication No. US20050214823A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Williams, Alan
 ; ATTORNEY: Blume, John
 ; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
 ; FILE REFERENCE: 3654.1
 ; CURRENT APPLICATION NUMBER: US/11/036,317
 ; CURRENT FILING DATE: 2005-01-13
 ; PRIORITY APPLICATION NUMBER: US 60/536,639
 ; PRIOR FILING DATE: 2004-01-13
 ; NUMBER OF SEQ ID NOS: 991174
 ; SOFTWARE: Microarray Probe Sequence Listing Generator v 1.1
 ; SEQ ID NO 269817
 ; LENGTH: 25
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 US-11-036-317-269817

Query Match 71.0%; Score 14.2; DB 10; Length 25;
 Best Local Similarity 84.2%; Pred. No. 3.6e+03;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 ; APPLICANT: Williams, Alan
 ; ATTORNEY: Blume, John
 ; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
 ; FILE REFERENCE: 3654.1
 ; CURRENT APPLICATION NUMBER: US/11/036,317
 ; CURRENT FILING DATE: 2005-01-13
 ; PRIORITY APPLICATION NUMBER: US 60/536,639
 ; PRIORITY FILING DATE: 2004-01-13
 ; NUMBER OF SEQ ID NOS: 991174
 ; SOFTWARE: Microarray Probe Sequence Listing Generator v 1.1
 ; SEQ ID NO 364465
 ; LENGTH: 25
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 US-11-036-317-364465

RESULT 9
 US-11-036-317-330516
 ; Sequence 330516, Application US/11036317
 ; Publication No. US20050214823A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Williams, Alan
 ; ATTORNEY: Blume, John
 ; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
 ; FILE REFERENCE: 3654.1
 ; CURRENT APPLICATION NUMBER: US/11/036,317
 ; CURRENT FILING DATE: 2005-01-13
 ; PRIORITY APPLICATION NUMBER: US 60/536,639
 ; PRIORITY FILING DATE: 2004-01-13
 ; NUMBER OF SEQ ID NOS: 991174
 ; SOFTWARE: Microarray Probe Sequence Listing Generator v 1.1
 ; SEQ ID NO 364465
 ; LENGTH: 25
 ; TYPE: DNA
 ; ORGANISM: Mus musculus
 US-11-036-317-330516

```

US-11-036-317-364465
Query Match          71.0%; Score 14.2; DB 10; Length 25;
Best Local Similarity 84.2%; Pred. No. 3.6e+03; Indels 0; Gaps 0;
Matches 16; Conservative 0; Mismatches 3;
Qy   1 GGGAGCGGGCTCGGTCA 19
Db    4 GGGAGCGGGATCTGCCA 22

RESULT 12
US-11-036-317-406575
; Sequence 40575, Application US/11036317
; Publication No. US20050211823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator v 1.1
; SEQ ID NO: 406575
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-536427

Query Match          71.0%; Score 14.2; DB 10; Length 25;
Best Local Similarity 84.2%; Pred. No. 3.6e+03; Indels 0; Gaps 0;
Matches 16; Conservative 0; Mismatches 3;
Qy   1 GGGACGGGGCTCGGTCA 19
Db    7 GGAGAGGGGCTGGTTCGA 25

RESULT 15
US-09-977-137A-16
; Sequence 16, Application US/09977137A
; Publication No. US20030104524A1
; GENERAL INFORMATION:
; APPLICANT: Summers, Anne O.
; APPLICANT: Caguilat, Jonathan
; TITLE OF INVENTION: Metal Binding Proteins, Recombinant Host Cells and Methods
; CURRENT APPLICATION NUMBER: US/09/977-137A
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: US 60/240,465
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 16
; LENGTH: 33
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: primer
US-09-977-137A-16

Query Match          71.0%; Score 14.2; DB 3; Length 33;
Best Local Similarity 84.2%; Pred. No. 3.4e+03; Indels 0; Gaps 0;
Matches 16; Conservative 0; Mismatches 3;
Qy   1 GGGACGGGGCTCGGTCA 19
Db    6 GGTTCTCGGGCTGGGCA 24

Search completed: December 13, 2005, 14:39:40
Job time : 446 secs

US-11-036-317-536426
Query Match          71.0%; Score 14.2; DB 10; Length 25;
Best Local Similarity 84.2%; Pred. No. 3.6e+03; Indels 0; Gaps 0;
Matches 16; Conservative 0; Mismatches 3;
Qy   1 CGAACCCGGCTCGGTCA 19
Db    7 GGGACAGGGCTTGTCGA 25

RESULT 14
US-11-036-317-536427

```

Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 13, 2005, 13:30:05 ; Search time 144 Seconds
(without alignments)

51.924 Million cell updates/sec

Title: US-10-605-498-82

Perfect score: 20

Sequence: 1 gggacgccccgtcggtcat 20

Scoring table: IDBTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3392430 seqs, 186927314 residues

Total number of hits satisfying chosen parameters: 6638722

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_NA_New:
 1: /cgn2_6/podata/2/pubnra/US09_NEW_PUB.seq;*
 2: /cgn2_6/podata/2/pubnra/US06_NEW_PUB.seq;*
 3: /cgn2_6/podata/2/pubnra/US07_NEW_PUB.seq;*
 4: /cgn2_6/podata/2/pubnra/US08_NEW_PUB.seq;*
 5: /cgn2_6/podata/2/pubnra/PCT_NEW_PUB.seq;*
 6: /cgn2_6/podata/2/pubnra/US10_NEW_PUB.seq;*
 7: /cgn2_6/podata/2/pubnra/US11_NEW_PUB.seq;*
 8: /cgn2_6/podata/2/pubnra/US11_NEW_PUB.seq;*
 9: /cgn2_6/podata/2/pubnra/US11_NEW_PUB.seq;*
 10: /cgn2_6/podata/2/pubnra/US60_NEW_PUB.seq;*

*pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Description
ID	Length	DB	ID
C 1	12.8	64.0	19 8 US-11-101-244-1008030 Sequence 1008030,
C 2	12.8	64.0	19 9 US-11-108-784-1008030 Sequence 1008030,
C 3	12.6	63.0	19 8 US-11-101-244-899787 Sequence 899787,
C 4	12.6	63.0	19 9 US-11-083-784-899787 Sequence 899787,
C 5	12.4	62.0	32 6 US-11-039-294A-16099 Sequence 16099, A
C 6	12.2	61.0	22 7 US-11-176-795-58 Sequence 58, Appl
C 7	12.2	61.0	22 7 US-11-176-795-62 Sequence 62, Appl
C 8	12.2	61.0	32 6 US-10-039-294A-15630 Sequence 15630, A
C 9	12.0	60.0	19 8 US-11-101-244-877585 Sequence 877585,
C 10	12.0	60.0	19 9 US-11-083-784-877585 Sequence 877585,
C 11	12.0	60.0	27 7 US-11-075-046-4 Sequence 4, Appl
C 12	12.0	60.0	32 7 US-11-101-244-367704 Sequence 367704,
C 13	11.8	59.0	19 8 US-11-101-244-367704 Sequence 367704,
C 14	11.8	59.0	19 8 US-11-101-244-367714 Sequence 367714,
C 15	11.8	59.0	19 8 US-11-101-244-385820 Sequence 385820,
C 16	11.8	59.0	19 8 US-11-101-244-475963 Sequence 475963,
C 17	11.8	59.0	19 8 US-11-101-244-112891 Sequence 112891,
C 18	11.8	59.0	19 8 US-11-101-244-1221629 Sequence 1221629,
C 19	11.8	59.0	19 9 US-11-083-784-367704 Sequence 367704,
C 20	11.8	59.0	19 9 US-11-083-784-367714 Sequence 367714,
C 21	11.8	59.0	19 9 US-11-083-784-385820 Sequence 385820,
C 22	11.8	59.0	19 9 US-11-083-784-475963 Sequence 475963,
C 23	11.8	59.0	19 9 US-11-083-784-1128971 Sequence 1128971,

ALIGNMENTS

RESULT 1
US-11-101-244-1008030/c
 ; Sequence 1008030, Application US/11101244
 ; Publication No. US20050246794A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dharmacon, Inc.
 ; APPLICANT: Kivorrova, Anastasia
 ; APPLICANT: Reynolds, Angela
 ; APPLICANT: Leake, Devin
 ; APPLICANT: Marshall, William
 ; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 ; FILE REFERENCE: 13490US
 ; CURRENT APPLICATION NUMBER: US/11/101-244
 ; CURRENT FILING DATE: 2005-04-07
 ; PRIOR APPLICATION NUMBER: 60/502,050
 ; PRIOR FILING DATE: 2003-09-10
 ; PRIOR APPLICATION NUMBER: 60/426,137
 ; PRIOR FILING DATE: 2002-11-14
 ; NUMBER OF SEQ ID NOS: 1591911
 ; SOFTWARE: Proprietary
 ; SEQ ID NO: 1008030
 ; LENGTH: 19
 ; TYPE: RNA
 ; ORGANISM: Homo Sapiens
 US-11-101-244-1008030
 Query Match 64.0%; Score 12.8%; DB 8%; Length 19;
 Best Local Similarity 87.5%; Pred. No. 3.4e+03;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GACGGGGCGTCGTC 18
 Db 17 GATGGGGCGTCGTC 2

RESULT 2
US-11-083-784-1008030/c
 ; Sequence 1008030, Application US/11083784
 ; Publication No. US2005024575A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Dharmacon, Inc.
 ; APPLICANT: Kivorrova, Anastasia
 ; APPLICANT: Reynolds, Angela
 ; APPLICANT: Leake, Devin
 ; APPLICANT: Marshall, William

APPLICANT: Scaringe, Stephen
 TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 FILE REFERENCE: 13499US
 CURRENT APPLICATION NUMBER: US/11/083,784
 CURRENT FILING DATE: 2005-03-18
 PRIORITY NUMBER: US/10/714,333
 PRIOR FILING DATE: 2003-11-14
 PRIORITY NUMBER: 60/502,050
 PRIOR FILING DATE: 2003-09-10
 PRIORITY NUMBER: 60/426,137
 PRIOR FILING DATE: 2002-11-14
 NUMBER OF SEQ ID NOS: 1591911
 SOFTWARE: Proprietary
 SEQ ID NO: 1008030
 LENGTH: 19
 TYPE: RNA
 ORGANISM: Homo sapiens
 US-11-083-784-1008030

Query Match 64.0%; Score 12.8; DB 9; Length 19;
 Best Local Similarity 87.5%; Pred. No. 3.4e+03;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 3 GACGGCGGCTCGGTTC 18
 Db 17 GATGAGGCGCTCGGTTC 2

4

RESULT 3

US-11-101-244-899787
 Sequence 899787, Application US/11101244
 Publication No. US20050246794A1
 GENERAL INFORMATION:
 APPLICANT: Dharmacon, Inc.
 APPLICANT: Khorrova, Anastasia
 APPLICANT: Reynolds, Devin
 APPLICANT: Leake, Devin
 APPLICANT: Marshall, William
 APPLICANT: Scaringe, Stephen
 TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 FILE REFERENCE: 13499US
 CURRENT APPLICATION NUMBER: US/11/101,244
 CURRENT FILING DATE: 2005-04-07
 PRIORITY NUMBER: 60/502,050
 PRIOR FILING DATE: 2003-09-10
 PRIORITY NUMBER: 60/426,137
 PRIOR FILING DATE: 2002-11-14
 NUMBER OF SEQ ID NOS: 1591911
 SOFTWARE: Proprietary
 SEQ ID NO: 899787
 LENGTH: 19
 TYPE: RNA
 ORGANISM: Homo sapiens
 US-11-101-244-899787

Query Match 63.0%; Score 12.6; DB 8; Length 19;
 Best Local Similarity 63.2%; Pred. No. 4.2e+03;
 Matches 12; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
 Qy 2 GGACCGGGCTCGGTCAAT 20
 Db 1 GGAAACGGCGCUGGUCAU 19

RESULT 4

US-11-083-784-899787
 Sequence 899787, Application US/11083784
 Publication No. US20050245475A1
 GENERAL INFORMATION:
 APPLICANT: Dharmacon, Inc.
 APPLICANT: Khorrova, Anastasia
 APPLICANT: Reynolds, Devin
 APPLICANT: Leake, Devin

APPLICANT: Marshall, William
 TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 FILE REFERENCE: 13499US
 CURRENT APPLICATION NUMBER: US/11/083,784
 CURRENT FILING DATE: 2005-03-18
 PRIORITY NUMBER: US/10/714,333
 PRIOR FILING DATE: 2003-11-14
 PRIORITY NUMBER: 60/502,050
 PRIOR FILING DATE: 2003-09-10
 PRIORITY NUMBER: 60/426,137
 PRIOR FILING DATE: 2002-11-14
 NUMBER OF SEQ ID NOS: 1591911
 SOFTWARE: Proprietary
 SEQ ID NO: 899787
 LENGTH: 19
 TYPE: RNA
 ORGANISM: Homo sapiens
 US-11-083-784-899787

RESULT 5

US-10-339-294A-16099/C
 Sequence 16099, Application US/10939294A
 Publication No. US20050216417A1
 GENERAL INFORMATION:
 APPLICANT: Barany, Francis
 APPLICANT: Turner, Daniel
 APPLICANT: Pingle, Manesh
 APPLICANT: Pincas, Haim
 TITLE OF INVENTION: Methods for identifying target nucleic acid molecules
 FILE REFERENCE: 19603/4121 (CRF D-2995-02)
 CURRENT APPLICATION NUMBER: US/10/939,294A
 CURRENT FILING DATE: 2004-03-10
 PRIORITY NUMBER: US 60/502/731
 PRIOR FILING DATE: 2003-09-12
 NUMBER OF SEQ ID NOS: 38895
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO: 16099
 LENGTH: 32
 TYPE: DNA
 ORGANISM: Artificial
 FEATURE:
 OTHER INFORMATION: oligonucleotide probe
 US-10-339-294A-16099

Query Match 63.0%; Score 12.6; DB 6; Length 32;
 Best Local Similarity 92.9%; Pred. No. 4.7e+03;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 GGGACGGGGCGCTC 14
 Db 21 GGAGACGCGCTCGGC 8

RESULT 6

US-11-176-795-58/C
 Sequence 58, Application US/11176795
 Publication No. US2005025517A1
 GENERAL INFORMATION:
 APPLICANT: Gerdes, John C
 TITLE OF INVENTION: Method and Device for Multiplex Amplification System
 FILE REFERENCE: 1
 CURRENT APPLICATION NUMBER: US/11/176,795

CURRENT FILING DATE: 2005-07-07
 NUMBER OF SEQ ID NOS: 84
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 58
 LENGTH: 22
 TYPE: DNA
 ORGANISM: Coliform Bacteria
 US-11-176-795-58

Query Match 61.0%; Score 12.2; DB 7; Length 22;
 Best Local Similarity 82.4%; Fred. No. 6e+03;
 Matches 14; Conservative 0; Mismatches 3;
 Indels 0; Gaps 0;

RESULT 7
 US-11-176-795-62/c
 Sequence 62, Application US/11176795
 Publication No. US2005255517A1
 GENERAL INFORMATION:
 APPLICANT: Gerdes, John C
 ATTORNEY: Marmaro, Jeffrey M
 TITLE OF INVENTION: Method and Device for Multiplex Amplification System
 FILE REFERENCE: 1
 CURRENT APPLICATION NUMBER: US/11/176,795
 CURRENT FILING DATE: 2005-07-07
 NUMBER OF SEQ ID NOS: 84
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 62
 LENGTH: 22
 TYPE: DNA
 ORGANISM: Coliform Bacteria
 US-11-176-795-62

Query Match 61.0%; Score 12.2; DB 7; Length 22;
 Best Local Similarity 82.4%; Fred. No. 6e+03;
 Matches 14; Conservative 0; Mismatches 3;
 Indels 0; Gaps 0;

RESULT 8
 US-10-939-294A-15630
 Sequence 15630, Application US/10939294A
 Publication No. US2005266417A1
 GENERAL INFORMATION:
 APPLICANT: Barany, Francis
 ATTORNEY: Turner, Daniel
 APPLICANT: Pincas, Hanna
 ATTORNEY: Pingle, Manesh
 TITLE OF INVENTION: Methods for identifying target nucleic acid molecules
 FILE REFERENCE: 196034121 (CRP D-295-02)
 CURRENT APPLICATION NUMBER: US/10/939,294A
 CURRENT FILING DATE: 2004-09-10
 PRIOR APPLICATION NUMBER: US 60/502/731
 PRIOR FILING DATE: 2003-09-12
 NUMBER OF SEQ ID NOS: 38895
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO: 15630
 LENGTH: 32
 TYPE: DNA
 ORGANISM: Artificial
 FEATURE:
 OTHER INFORMATION: Oligonucleotide probe

Query Match 61.0%; Score 12.2; DB 6; Length 32;
 Best Local Similarity 82.4%; Fred. No. 5.7e+03
 US-10-939-294A-15630

RESULT 9
 US-11-101-244-877585/c
 Sequence 877585, Application US/11101244
 Publication No. US2005246794A1
 GENERAL INFORMATION:
 APPLICANT: Pharmacon, Inc.
 ATTORNEY: Khrvorova, Anastasia
 APPLICANT: Reynolds, Angela
 ATTORNEY: Leake, Devin
 APPLICANT: Marshall, William
 APPLICANT: Scarine, Stephen
 TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 FILE REFERENCE: 134,990US
 CURRENT APPLICATION NUMBER: US/11/101,244
 CURRENT FILING DATE: 2005-04-07
 PRIOR APPLICATION NUMBER: 60/502,050
 PRIOR FILING DATE: 2003-09-10
 PRIOR APPLICATION NUMBER: 60/426,137
 PRIOR FILING DATE: 2002-11-14
 NUMBER OF SEQ ID NOS: 1591911
 SOFTWARE: Proprietary
 SEQ ID NO: 877585
 LENGTH: 19
 TYPE: RNA
 ORGANISM: Homo sapiens
 US-11-101-244-877585

RESULT 10
 US-11-083-784-877585/c
 Sequence 877585, Application US/11083784
 Publication No. US2005245475A1
 GENERAL INFORMATION:
 APPLICANT: Pharmacon, Inc.
 ATTORNEY: Khrvorova, Anastasia
 APPLICANT: Reynolds, Angela
 ATTORNEY: Leake, Devin
 APPLICANT: Marshall, William
 APPLICANT: Scarine, Stephen
 TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 FILE REFERENCE: 134,990US
 CURRENT APPLICATION NUMBER: US/11/083,784
 CURRENT FILING DATE: 2005-03-18
 PRIOR APPLICATION NUMBER: US/10/714,333
 PRIOR FILING DATE: 2003-11-14
 PRIOR APPLICATION NUMBER: 60/502,050
 PRIOR FILING DATE: 2003-09-10
 PRIOR APPLICATION NUMBER: 60/426,137
 PRIOR FILING DATE: 2002-11-14
 NUMBER OF SEQ ID NOS: 1591911
 SOFTWARE: Proprietary
 SEQ ID NO: 877585
 LENGTH: 19
 TYPE: RNA
 ORGANISM: Homo sapiens
 US-11-083-784-877585

Query Match 60.0%; Score 12; DB 9; Length 19;

Best Local Similarity 100.0%; Pred. No. 7.5e+03; Mismatches 0; Indels 0; Gaps 0;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 GGCGCTGGTCT 20
Db 15 GCGGTCGGTCT 4

RESULT 11
US-11-075-046-4/c
GENERAL INFORMATION:
Publication No. US11075046
SEQUENCE 4, Application US/11075046
PRIORITY DATE: 07-MAR-2005
TITLE OF INVENTION: INSECT VIRUSES AND THEIR USES IN PROTECTING PLANTS
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: DORSEY & WHITNEY LLP
STREET: FOUR EMBARCADERO CENTER, SUITE 3400
CITY: SAN FRANCISCO
STATE: CALIFORNIA
COUNTRY: UNITED STATES OF AMERICA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/075, 046
FILING DATE: 07-MAR-2005
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/09/677, 653
FILING DATE: 03-OCT-2000
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD F. TRECARTIN
REGISTRATION NUMBER: 31, 801
REFERENCE/DOCKET NUMBER: A-58631-4/RFT/NBC
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: CDS
LOCATION: 6..32
US-11-075-046-30

Query Match 60.0%; Score 12; DB 7; Length 32;
Best Local Similarity 75.0%; Prd. No. 6.e+03;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GGGACGGGGCTCGTCAT 20
Db 25 GCGACGGGGCTCGTCAT 6

RESULT 12
US-11-075-046-3/c
GENERAL INFORMATION:
Publication No. US11075046
SEQUENCE 30, Application US/11075046
PRIORITY DATE: 07-MAR-2005
TITLE OF INVENTION: INSECT VIRUSES AND THEIR USES IN PROTECTING PLANTS
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: DORSEY & WHITNEY LLP
STREET: FOUR EMBARCADERO CENTER, SUITE 3400
CITY: SAN FRANCISCO
STATE: CALIFORNIA
COUNTRY: UNITED STATES OF AMERICA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/075, 046
FILING DATE: 07-MAR-2005
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD F. TRECARTIN
REGISTRATION NUMBER: 31, 801
REFERENCE/DOCKET NUMBER: A-58631-4/RFT/NBC
TELEPHONE: (415) 781-1989
SEQUENCE CHARACTERISTICS:
LENGTH: 27 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-11-075-046-4

Query Match 60.0%; Score 12; DB 7; Length 27;
Best Local Similarity 75.0%; Prd. No. 7.1e+03;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GGGACGGGGCTCGTCAT 20
Db 20 GCGACGGGGCTCGTCAT 1

RESULT 13
US-11-101-244-367704/c
GENERAL INFORMATION:
Publication No. US2005246794AL
SEQUENCE 367704, Application US/11101244
PRIORITY DATE: 07-MAR-2005
TITLE OF INVENTION: Functional and Hyperfunctional siRNA
CURRENT APPLICATION NUMBER: US/11/101, 244
CURRENT FILING DATE: 2005-04-07
PRIORITY APPLICATION NUMBER: 60/502, 050
PRIORITY FILING DATE: 2003-09-10
NUMBER OF SEQ ID NOS: 1591911
SEQ ID NO 367704
LENGTH: 19
TYPE: RNA
ORGANISM: Homo sapiens
US-11-101-244-367704

Query Match 60.0%; Score 11.8; DB 8; Length 19;
Best Local Similarity 75.0%; Prd. No. 9.1e+03;

RESULT 14 US-11-101-244-367714/c
 Sequence 367714, Application US/11101244
 Publication No. US20050246794A1
 GENERAL INFORMATION:
 APPLICANT: Dharmacon, Inc.
 APPLICANT: Khorrova, Anastasia
 APPLICANT: Reynolds, Angela
 APPLICANT: Leake, Devin
 APPLICANT: Marshall, William
 APPLICANT: Scarling, Stephen
 TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 FILE REFERENCE: 134990US
 CURRENT APPLICATION NUMBER: US/11/101,244
 CURRENT FILING DATE: 2005-04-07
 PRIOR APPLICATION NUMBER: 60/502,050
 PRIOR FILING DATE: 2003-09-10
 PRIOR APPLICATION NUMBER: 60/426,137
 PRIOR FILING DATE: 2002-11-14
 NUMBER OF SEQ ID NOS: 1591911
 SOFTWARE: Proprietary
 SEQ ID NO: 367714
 LENGTH: 19
 TYPE: RNA
 ORGANISM: Homo sapiens
 US-11-101-244-367714

Query Match 59.0%; Score 11.8%; DB 8; Length 19;
 Best Local Similarity 86.7%; Pred. No. 9.1e+03; Indels 0;
 Matches 13; Conservative 0; Mismatches 2; Gaps 0;
 Qy 4 ACGGCGCGCTGGTC 18
 Db 15 ACACGGCGCTGGTC 2

RESULT 15 US-11-101-244-385820/c
 Sequence 385820, Application US/11101244
 Publication No. US20050246794A1
 GENERAL INFORMATION:
 APPLICANT: Dharmacon, Inc.
 APPLICANT: Khorrova, Anastasia
 APPLICANT: Reynolds, Angela
 APPLICANT: Leake, Devin
 APPLICANT: Marshall, William
 APPLICANT: Scarling, Stephen
 TITLE OF INVENTION: Functional and Hyperfunctional siRNA
 FILE REFERENCE: 134990US
 CURRENT APPLICATION NUMBER: US/11/101,244
 CURRENT FILING DATE: 2005-04-07
 PRIOR APPLICATION NUMBER: 60/502,050
 PRIOR FILING DATE: 2003-09-10
 PRIOR APPLICATION NUMBER: 60/426,137
 PRIOR FILING DATE: 2002-11-14
 NUMBER OF SEQ ID NOS: 1591911
 SOFTWARE: Proprietary
 SEQ ID NO: 385820
 LENGTH: 19
 TYPE: RNA
 ORGANISM: Homo sapiens
 US-11-101-244-385820

Query Match 59.0%; Score 11.8%; DB 8; Length 19;
 Best Local Similarity 86.7%; Pred. No. 9.1e+03; Indels 0;
 Matches 13; Conservative 0; Mismatches 2; Gaps 0;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0; Qy 3 GACGGGGGACTCGGT 17
 Db 17 GAGTGGCGCTCGGT 3

Search completed: December 13, 2005, 14:42:10
 Job time : 144 secs

THIS PAGE BLANK (USPTO)